Page 1

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(FILE 'HOME' ENTERED AT 09:52:30 ON 06 NOV 2008)

FILE 'REGISTRY' ENTERED AT 09:52:47 ON 06 NOV 2008

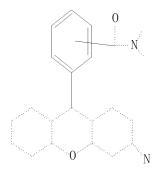
STRUCTURE UPLOADED I.1

L2 26 S L1

475 S L1 FULL L3

=> d que 13 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation. 475 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 13210 ITERATIONS

475 ANSWERS

SEARCH TIME: 00.00.01

 \Rightarrow s 13 and ed<12/18/2003 60371597 ED<12/18/2003 (ED<20031218) 132 L3 AND ED<12/18/2003 L4

=> fil capl FILE 'CAPLUS' ENTERED AT 09:56:32 ON 06 NOV 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19 FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/legal/infopolicy.html

'.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 14 L5 43 L4

 \Rightarrow d 1-43 bib abs hitstr

ANSWER 1 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2008:1071173 CAPLUS 149:3340404 Punctionalized xanthene dyes used for formation conjugates with biomolecules, drug and toxins Reddington, Mark: Lyttle, Matt Biosearch Technologies, Inc., USA U.S. Pat. Appl. Publ., SSpp., Cont. of U.S. Ser. No. 824,175. CODEN: USXXCO Patent

L'AIN.	UNI Z				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20080214811	A1	20080904	US 2008-36926	20080225
	US 20050170363	A1	20050804	US 2004-824175	20040413
	US 7344701	B2	20080318		
PRAI	US 2004-541686P	P	20040203		
	TIC 2004-02417E	8.1	20040412		

US 2004-54175 A1 20040433
W0 2005-USS627 A 20050204
Ottionally functionalized xanthene dyes are used for formation conjugates with biomols, drugs, toxins and the like. Thus, Rhodamine 6G
N-methylaminocthanol-linked nucleoside was used for preparation controlled pore glass for solid phase oligonucleotide synthesis.
48504-67-99 48504-70-94 Use); IMF (Industrial manufacture); ANST (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation); USES (Uses)
(functionalized xanthene dyes used for formation conjugates with biomols, drug and toxins)
48504-67-9 CAPLUS
Xanthylium, 3, 6-bis (diethylamino)-9-[2-[[(2-bydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME) AB

IT

4\$5304-70-4 CAPLUS Xanthylium, 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-methyl-1-oxo-5, 7-dioxa-2-aga-6-phosphanon-1-yl]phenyl]-3,6-bis(diethylamino)- (9CI) (CA INDEX NAME)

ANSWER 2 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2007:1393123 CAPLUS 148:215457

148:215457
Multivalent polymer vesicles via surface functionalization
Li, Bo; Martin, Amanda L.; Gillies, Elizabeth R.
Department of Chemistry, The University of Western Ontario, London, Can.
Chemical Communications (Cambridge, United Kingdom) (2007), (48),
5217-5219
CODEN: CHCOPS; ISSN: 1359-7345
Royal Society of Chemistry
Journal
Finelieh

Royal Society of Chemistry
Journal
English
CASREACT 148:215457
A method was developed to add multivalent dendritic groups to polymer
vesicles; vesicles were assembled which have activated surface groups,
followed by reaction with dendrons having complementary groups. The
amphiphilic linear butadiene-ethylene oxide diblock conolymer was first
treated with azidodiacetic acid to introduce terminal azide groups which
are at the surface of formed vesicles. The effect of this surface
modification on the vesicle morphol, and stability was studied. Based on
conjugation yields, CISM images, and attempts at vesicle reconstitution,
the ideal percentage of azide-functionalized polymer to achieve good
surface coverage without risking vesicle destabilization following dendron
conjugation is 10-20%. This approach will be highly versatile as the
peripheral amine groups of the dendron can be easily functionalized with
carboxylic acid, NIS-sester, or isothicoxynate derivs. of biol. ligands
either prior to or after the click reactions.
608136-14-7
(APIUS
Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-[5-[[(2,5-dioxo-]pvyrolidinyl)oxy]carbonyl]oxy]propyl]-1-piperazinyl]carbonyl]phenyl](CA
INDEX NAME)

RE. CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 1 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

ANSWER 3 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2007:669380 CAPLUS 147:271848 Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters Chang, Panela V.; Prescher, Jennifer A.; Hangauer, Matthew J.; Bertozzi, Carolyn R. Departments of Chemistry and Molecular and Cell Biology and Howard Hughes Medical Institute, University of California, Berkeley, CA, 94720, USA Journal of the American Chemical Society (2007), 129(27), 8400-8401 CODEN: JACSAT: ISSN: 0002-7863 American Chemical Society Journal of the Marcian Chemical Society Mountain Chemical Society Journal Chemical Society Surface Chemical Society (2007), 129(27), 8400-8401 Finglish

SO

PB DT LA OS AB

American Greenea Society,
Journal
English
English
The visualization of biomols. as they function in living systems is
important for understanding complex biol, processes. Here, the authors
applied the bioorthogonal chemical reporter technique to image cell surface
glycans using multiple metabolic labels. The authors introduced two
different chemical reporters into sialic acid and N-acetylgalactosamine
(GalMAc) residues and then simultaneously imaged their associated cell
surface glycans with fluorescent probes.

608136-11-4
RE: RCT (Reactant): RACT (Reactant or reagent)
(imaging cell surface glycans with bioorthogonal chemical reporters)
608136-11-4
SCHUS

4 CAPLUS

4 CAPLUS

4 CAPLUS

4 CAPLUS

5 CALIBORY (Gallethylamino) -9-[2-(1-piperazinylcarbonyl)phenyl](CA INDEX NAME)

THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 30

ANSWER 4 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:257788 CAPLUS
DN 146:318641
T1 Preparation of fluorescent dithio reagents for use in detecting thiol-containing commounds
IN Sem, Daniel S.; Pullela, Phani Kumar
PA Marquette University, USA
SU U.S. PAt. Appl. Publ., 51pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DAY

PATENT NO. KIND DATE APPLICATION NO. DATE

PI US 20070054410 Al 20070508 US 2006-512485 20060830

PRAI US 2006-715114P P 20050008

SC CASREACT 146:318641: MARPAT 146:318641

B This invention relates to the preparation of a fluorescent dithic compound and the medic of detecting the programming compds. The fluorescent dithic compounds of the medical of detecting an accentor fluorescent dithic fluorescent dithic compounds. The fluorescent dithic compounds and the medical of detecting the containing compds. The fluorescent dithic fluorescent dithic compounds and accentor fluorescent dithic fluorescent dithic compounds and the door fluorescent as accentor fluorescent at is different from the door fluorescent dithic scapable of at least one of: (a) quenching the donor fluorescent governors of the compound of

608136-12-5 CAPLUS Xanthylium, 9-[2-[[4-(3-carboxy-1-oxopropy])-1-piperazinyl]carbonyl]phenyl]-3,6-bis(diethylamino)- (CA INDEX NAME)

$$\texttt{HO}_2\texttt{C-CH}_2-\texttt{CH}_2-\texttt{CH}_2-\texttt{NEt}_2$$

L5 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:117852 CAPLUS
N 146:212200
TI Hair dye composition for dyeing of keratin fibers comprising an amidoxanthene direct dye
IN Lagrange, Alain
P L 'Oreal, Fr.
SO Fr. Demande, 74pp.
COODN: FRXXBL
DT Patent
LA French
FAN. CNT 1
PATENT NO, KIND DATE APPLICATION NO. DA

KIND DATE PATENT NO. APPLICATION NO. DATE

PARTON NO. KIND DATE APPLICATION NO. DATE

PI FR 2889060 Al 20070202 FR 2005-52408 20050801

PRAI FR 2005-52408 20050801

BARAT 146:212209

AB A has 1606 Silvers and, more particularly hair, contains an amidoxanthene direct dye. A hair of the silvers and, more particularly hair, contains an amidoxanthene direct dye. A hair dye composition contained [6-[bis:(2-hydroxy-ethyl)-aminoi]-9 (2-dirronylcarhamoyl-phenyl)-xanthen-3-ylidenel-bis:(2-hydroxy-ethyl)-aminoimo 1.255 alkyl polyglucoside 3, PBG-8 6, benzyl alc. 4, hydroxyethyl cellulose 0.72, buffer pH = 9 50, and water qs. 100 g. The composition gives a strong red color to the hair.

II 80342-09-2 103941-64-6 117047-17-3 [165196-09-2 199606-10-5 199606-12-7 199606-09-2 199606-36-3 199606-36-3 199606-30-9 199606-30-9 199606-38-5 199608-38-5 199608-38-5 02605-58-5 202605-59-6 202605-58-5 202605-59-6 202605-58-5 202605-59-6 202605-59-6 202605-58-5 202605-59-6 202605-59-6 202605-58-5 202605-59-6 202605-59-6 202605-69-8 202605-69-8 202605-69-8 202605-69-8 202605-69-6 202605-69-8 202605-69-6 202605-69-8 202605-69-6 202605-69-8 202605-69-

100941-64-6 CAPLUS Xanthylum, 3,6-bis (diethylamino)-9-[2-[(dioctadecylamino)carbonyl]phenyl]-, chloride (l:1) (CA INDEX NAME)

L5 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● C1⁻

117047-17-3 CAPLUS Xanthylium, 3,6-bis(dimethylamino)-9-[2-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]phenyl]- (CA INDEX NAME)

165195-69-7 CAPLUS Xanthylium, 9-[2-[[(4S,5S)-4,5-diaminohexahydro-1H-azepin-1-yl]carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

• c1-

199605-62-4 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

€ C1 =

199606-09-2 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-,chloride (1:1) (CA INDEX NAME)

199606-10-5 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-,chloride (1:1) (CA INDEX NAME)

199606-11-6 CAPLUS

ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

199606-30-9 CAPLUS Xanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-(CA INDEX NAME)

199606-32-1 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-(CA INDEX NAME)

199682-43-4 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
Xanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3, 6-bis(diethylamino)-,
chloride (1:1) (CA INDEX NAME)

199606-12-7 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-,chloride (1:1) (CA INDEX NAME)

● C1 =

199606-26-3 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dimethylamino) carbonyl]phenyl]-(CA INDEX NAME)

199606-28-5 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-(CA INDEX NAME)

L5 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

D1-N02

• C1 -

199682-50-3 CAPLUS Xanthylium, 3,6-bis(dibutylamino)-9-[2-[(dipropylamino)carbonyl]-4(or5)-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

D1-NO2

● C1 =

199744-84-8 CAPLUS (Action 1997) Action (Action 199

D1 - N02

ANSWER 5 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 199744-94-0 (APLUS Xanthylium, 3,6-bis(dibutylamino)-9-[2-[(dipropylamino) carbonyl]-4(or 5)-nitrophenyl]- (CA INDEX NAME)

D1-N02

202603-49-4 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

202608-50-7 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-5-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 202603-88-5 CAPLUS Xanthyllum, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(ethoxycarbonyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

202603-59-6 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(hydroxymethyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

• c1-

202603-64-3 CAPLUS Xanthylium, 9-[4-(aminomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride, hydrochloride (1:1:1) (CA INDEX NAME)

L5 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

11/10/2008

• c1 -

202603-51-8 CAPLUS Xanthylium, 9-[4-amino-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

• c1 -

202603-53-0 CAPLUS Xanthylium, 9-[5-amino-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

L5 ANSWER 5 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• C1

● HC1

249742-41-4 CAPLUS Xanthylium, 9-[2-[[bis(cyanomethyl)amino]carbonyl]phenyl]-3,6-bis(methylphenylamino)- (CA INDEX NAME)

$$\begin{array}{c} \text{NC}-\text{CH}_2\\ \text{NC}-\text{CH}_2-\text{N}-\text{O}_+\\ \\ \text{Me}-\text{N}_+\\ \text{Ph} \end{array}$$

43504-66-8 CAPLIS Xanthylium, 3,6-bis(dimethylamino)-9-[2-[[(2-hvdroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME)

435304-67-9 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME)

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 2

ANSWER 7 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2006:1193539 CAPLUS 146:138111

AN DN TI

Modification of Aniline Containing Proteins Using an Oxidative Coupling

Modification of Anline Containing Froteins Using an Oxidative Couplir Strategy Hooker, Jacob M.; Esser-Kahn, Aaron P.; Francis, Matthew B. Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA Journal of the American Chemical Society (2006), 128(49), 15558-15559 CODEN: JACSAT: ISSN: 0002-7863 American Chemical Society Journal

Dournal English 146:138111

CASRACT 146:138111

A new bioconjugation reaction has been developed based on the chemoselective modification of anilines through an oxidative coupling pathway. Anyl amines were installed on the surface of protein substrates through lysine acylation reactions or through the use of native chemical ligation techniques. Upon exposure to NaIO4 in aqueous buffer, the anilines coupled rapidly to the aromatic rings of Name and aqueous buffer, the anilines coupled rapidly to the aromatic rings of The identities of the reaction products were confirmed using EGT MS and through comparison to small mol. an aparticipated in the reaction. The resulting bioconjugates were found to be stable toward hydrolysis from 81 4 to pt 11 and in the presence of many commonly used oxidants, reductants, and nucleophiles. A fluorescent phenylenediamine reagent was synthesized for the selective detection of aniline labeled proteins in mixts, and the reaction was used to append the C-terminus of the green fluorescent protein with a single PEG chain. When combined with techniques for the incorporation of unnatural amino acids into proteins, this bioorthogonal coupling method should prove useful for a number of applications requiring a high degree of labeling specificity.

(Modification of aniline containing proteins using oxidative coupling strategy)

(608136-11-4 CAPLUS

Xanthylium, 3,6-bis(diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-(CA INDEX NAME)

THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 35

CS

SO

ANSWER 6 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2006:1257215 CAPLUS 147:229266 Chemoenzymatic ubiquitination of artificial substrates Chemoenzymatic ubiquitination of artificial substrates Burchak, Ojan N.; Jaquinod, Michel; Cottin, Claire; Mugherli, Laurent; Iwai, Kazuhiro; Chatelain, Francois; Balakirev, Maxim 7. Departement Reponse et Dynamique Cellulaires, Commissariat a 1 Energie Atomique, Grenoble, 38004, Pr. Chembiochem (2006). 7 (11), 1867-1869 (2008). CRAHX; ISBN: 1489-4527 (11), 1867-1869 (2018). CRAHX; ISBN: 1489-4527 (11), 1867-1869 (2018). CRAHX; ISBN: 1489-4527 (11), 1867-1869 (2018). The control of the control of

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THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 28

L5	ANSWER	8	0F	43	CAPLUS	COPYRIGHT	2008	ACS	on	STN
14.4	2005:00	100	110	C 4	DITTE					

2005:698218 CAPI 143:169183 DN TI IN PA SO

143:169183
Kanthene dyes
Reddington, Mark; Lyttle, Matt
Biosearch Technologies, Inc., USA
U.S. Pat. Appl. Publ., 62 pp.
CODEN: USXXCO
Patent
English
ONT 2

ran.		TENT	NO.			KIN)	DATE			APPL	ICAT	ION	NO.		D.	ATE	
PI		2005		363		A1			0804		US 2	004-	8241	75		2	0040	413
		7344 1740				B2 A1			0318 0110		EP 2	005-	7129	02		2	0050	204
		R:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK, PL,	EE, PT.	ES, RO,	FI, SE,	FR,	GB, SK.	GR, TR	HU,	IE,
	US	2008	0214	811	DI,	A1	Doy		0904	1 1.09		8008-		6	O.I.		0080	225
PRAI	US	2004	-541	686P		P			0203									
		2004				A			0413									
	WO	2005	-US3	627		8		2005	0204									

MARPAT 143:169183
The invention provides a novel class of xanthene dyes, some of which are functionalized to allow their coupling to conjugation partners of interest, e.g. biomols., drugs, toxins and the like. Also provided are conjugates of the dyes, methods of preparing and using the dyes and their conjugates and kits including the dyes and their conjugates.
48504-70-4P
RU: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(xanthene dyes)
48504-70-4 CAPLUS
Xanthylium, 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-methyl-1-oxo-5, 7-dioxa-2-a-a-6-phosphanon-1-yl]phenyl]-3, 6-bis(diethylamino)- (9CI) (CA INDEX NAME)

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 7

ANSWER 9 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN 2005:162452 CAPLUS 142:388589 Dual-surface modification of the Tobacco mosaic virus Schlick, Tara L.; Ding, Zhebo; Kovacs, Ernest W.; Francis, Matthew B. Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA L5 AN DN TI AU CS

Schlick, Iara L.; Ding, Zhebo; Rovacs, Ernest W.; Prancis, Matthew B. Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA
JOURNAI of the American Chemical Society (2005), 127(11), 3718-3723
CODEN: JACSAT: ISSN: 0002-7863
American Chemical Society
Journal
English
The protein shell of the tobacco mosaic virus (TMV) provides a robust and practical tubelike scaffold for the preparation of nanoscale materials. To expand the range of applications for which the capsid can be used, two synthetic strategies have been developed for the attachment of new functionality to either the exterior or the interior surface of the virus. The first of these is accommissed using a highly efficient diazonium control component on the capsid exterior. Alternatively, the inner cavity of the tube can be modified by attaching amines to glutamic acid side chains through a carbodimide coupling reaction. Both of these reactions have been demonstrated for a series of substrates, including biotin, chromophores, and crown ethers. Through the attachment of FEG polymers to the cassid exterior, organic-soluble TMV rock have been prepared Finally, the orthogonality of these reactions has been demonstrated by installing different functional groups on the exterior and interior surfaces of the same capsid assemblies.

608136-11-4PP, conjunctes with TMV coat protein
RL: ARU (Analytical role, unclassified): SPN (Synthetic preparation); ANST (Analytical study): FMF (Preparation)
(dual-surface modification of Tobacco mosaic virus)

608136-11-4 (APLUS

Xanthylium, 3,6-bis (diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-(CA INDEX NAME)

608136-11-4
RL: RCT (Reactant): RACT (Reactant or reagent)
(dual-surface modification of Tobacco mosaic virus)
608136-11-4 CAPLUS
Annthylium, 3.6-bis(diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl](CA INDEX NAME)

ANSWER 10 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2004:991081 CAPLUS 142:130054

AN DN TI

A Three-Component Mannich-Type Reaction for Selective Tyrosine

A Inre-Component Mannich-Type Reaction for Selective Tyrosine Bioconjugation, Joshi, Neel S.; Whitaker, Leanna R.; Francis, Matthew B. Department of Chemistry, University of California, Berkeley, CA, 94720-1460, USA
Journal of the American Chemical Society (2004), 126(49), 15942-15943
CODEN: JACSAT: ISSN: 0002-7863
American Chemical Society
Journal

English CASREACT 142:130054

English
CASRBACT 142:130054
A new selective bioconjugation reaction is described for the modification of tyrosine residues on protein substrates. The reaction uses imines formed in situ from aldehydes and electron-rich anilines to modify hencolic side chains through a Mannich-type electrophilic aromatic substitution pathway. The reaction takes place under mild pH and temperatu conditions and can modify protein substrates at concess. as low as 20 MM. Using an efficient fluorescence-based assay, we demonstrated the reaction using a number of aldehydes and protein targets. Importantly, proteins lacking surface-accessible tyrosines remained unmodified. It was also demonstrated that enzymic activity is preserved under the mild reaction conditions. This strategy represents one of the first carbon-carbon bond-forming reactions for protein modification and provides an important complement to more commonly used lysine—and cysteine-based methods.

GOS136-13-G
GRECTATE (Reactant): RACT (Reactant or reagent)
(three-component Mannich-type reaction for selective tyrosine bioconjugation)
GOS136-13-G
CAPLUG (Reactant): RACT (Reactant or reagent)
(three-component Mannich-type reaction for selective tyrosine bioconjugation)
GOS136-13-G
CAPLUG (Reactant): RACT (Reactant or reagent)
(three-component Mannich-type reaction for selective tyrosine bioconjugation)
GOS136-13-G
CAPLUG (Reactant): RACT (Reactant or Reagent)
(A RAME)

HO- (CH2) 5

RE. CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L5 ANSWER 9 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

11/10/2008

RE ONT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 11 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2004:985429 CAPLUS 143:165621

AN DN TI

143:165621
Study on novel fluorescent probe containing rhodamine structure. (I) - tautomerism and spectroscopic characteristics
Yu, Mei-juani Meng, Qing-huai Zheng, Yi-ningi Zhang, Hai-feng; Zeug, Yuan Sch. Chem. Chem. Brg., Shanghai Jiaotong Univ., Shanghai, 200240, Peop. Rep. 120: Range (2004), 41(4), 187-190
CODBN: KYRAAY: ISSN: 1672-1179
Raniiao Yu Ranse Bianjibu Journal AU CS

SO

PB DT

Journal Chinese N-succinimidyl ester is a novel amine reactive fluorescent Rhodamine B N-succinimidyl ester is a novel amine reactive fluorescent probe. Both UV/visible spectra and fluorescence spectra of the labeled compds. were studied in different pH media. The correlation between protonation, tautomerism and spectra properties is discussed. N-substituted rhodamine amides would readily change to nonfluorescent spirolactams in alkaline or neutral medium. 199006-28- RL: FMD (Formation, unclassified): PRP (Properties): FORM (Formation, nonremarative)

RC: PMU (Formation, unclassified): PRP (Properties): FORM (Formation, nonprenarative)
(tautomerism and spectroscopic properties of derivs. of amines and Rhodamine B succinimidyl ester fluorescent probe)
199606-28-5 (APLIE)
Xanthylium, 3.6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl](CA INDEX NAME)

ANSWER 12 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:512206 CAPLUS
DN 141:76341
Hair dye compositions containing a polycationic direct dye
IN Lagrange, Alain
PA L'oreal, Fr.
50 Fr. Demande, 65 pp.
CODEN: FRXEEL
DT Patent
LA Prench
FRACNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND DATE APPLICATION NO. DATE

PI FR 2848837 Al 20040625 FR 2002-16564 20021223
EP 1433473 Al 20040630 EP 2003-293291 20031223
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 20040194229 Al 20041007 US 2003-742841 20031223
US 7241319 BZ 20070710 US 2003-742842 20031223
PRAIF R 2002-16564 A 20021223
US 2003-4687329 P 20030508

PRAIF TR 2005-16564 A 20021223
US 2003-4687329 P 20030508

MARPAT 141:76541
AB The dyeing of human keratin fibers and more particularly of the human hair comortises a direct nolycationic dye containing e.g., azomethine, phenothiazine, triarylmethane, or xanthene groups. Thus, a formulation contained an inidacolium azo dye 0.70, bensyl alc. 4.0, PEG 6.0, alkyl polyglucoside 4.5, phosphate buffer qs, and water qs to 100 g.

RC: COS (Commetic use): BIOL (Biological study): USES (Uses) (hair dye compus. containing polycationic direct dye)

N 127193-48-0 (APLUS

N 127193-

CM 1

CRN 127193-47-9 CMF C58 H65 N6 04

ANSWER 13 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2004:481799 CAPLUS 141:39726 Rhodamine-based fluorophores useful as labeling reagents Chiarello, Ronald H.; Liu, Wing; Yokobata, Kathy E. Symgen, Inc., USA U.S., 13 pp. CODEN: USXAM Patent

FAN	. CNT 2				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6750357	B1	20040615	US 1999-344226	19990625
	TW 277619	В	20070401	TW 2000-89112501	20000707
	US 20030104380	A1	20030605	US 2001-894423	20010628
	US 20040234957	A9	20041125		
	US 7183405	B2	20070227		

US 20040234957 A9 20041125
US 7185496 B 22 20070227
PRAI US 1999-344226 A 19990625

BMRARI 141:39726 A 19990625

BMRARI 141:39726 A 19990625

BMRARI 141:39726 A 19990625

AB Pluorescent dyes based on rhodamine are derivatized to form labeled conjugates that fluoresce uson excitation with light of an appropriate wavelength. Farticularly preferred embodiments are certain single isomer form rhodamine phosphor amidites. These rhodamine phosphoramidites enhance the efficiency of symmetric line and the lateral Knowle levited as old the efficiency of symmetric line and the lateral Knowle levited as old the efficiency of symmetric line and the lateral Knowle levited as old the efficiency of symmetric line and the lateral Knowle levited as old the efficiency of the lateral Knowle lateral and the lateral Knowle lateral Result and the lateral Result

435304-72-6 CAPLUS
Xanthylium, 3,6-bis(dimethylamino)-9-[2-[[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]methylamino]carbonyl]phenyl]- (CA INDEX NAME)

L5 ANSWER 12 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

485304-73-7 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[[2-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1,4-dioxobutoxy]ethyl]methylamino]carbonyl]phenyl]- (CA NDBX NAME)

435304-66-8 435304-67-9 435304-69-1 RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent) (preparation of rhodamine-based fluorophores useful as labeling reagents) 435304-66-8 (APLIE) Annihylum, 3,6-bis(dimethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl])- (CA INDEX NAME)

435304-67-9 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME)

 $\begin{array}{lll} 435304-69-1 & CAPLUS \\ Xanthyllum, & 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-methyl-1-oxo-5, 7-dioxa-2-aza-6-phosphanon-1-yl]phenyl]-3, 6-bis(dimethylamino)- (9CI) & (CAINDEX NAME) \\ \end{array}$

$$\label{eq:NC-CH2-CH2-O-P-O-CH2-CH2-N-C} \text{NC-CH2-CH2-O-CH2-N-C} \\ \text{Me }_{2N} \\ \text{Me}_{2N} \\ \text{NMe}_{2N} \\ \text{NMe$$

THERE ARE 90 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 90

- ANSWER 14 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 608136-14-7 CAPLUS (Anthyllum, 3,6-bis(diethylamino)-9-[2-[[4-[3-[[[(2,5-dioxo-1-pyrtolidinyl)oxy]carbonyl]oxy]propyl]-1-piperazinyl]carbonyl]phenyl]- (CA IMDEX NAME)

608136-16-9 CAPLUS Xanthylium, 9-[2-[[4-(2-chloroacetyl)-1-piperazinyl]carbonyl]phenyl]-3, 6-bis (diethylamino)- (CA INDEX NAME)

608136-12-5P 608136-15-8P 608136-17-0P 608136-18-1P 608136-19-2P RKL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); IUSES (Uses) (preparation of functionalized rhodamine dyes for biochem. labeling) 608136-12-5 CAPLUS Arathylium, 9-[2-[[4-(3-carboxy+]-oxopropyl)-1-piperazinyl]carbonyl]phenyl]-3,6-bis(diethylamino)- (CA INDEX NAME) IT

608136-15-8 (APLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-[3-[[[([bienylmethyl)amino]carbonyl]oxy]propyl]-1-piperazinyl]carbonyl]phenyl]-((A NDEX NAME)

AN DN TI AU CS

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ANSWER 14 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2003:687739 CAPLUS 139:295416
Practical synthetic route to functionalized rhodamine dyes Nauyen, Trung; Francis, Matthew B.
Department of Chemistry, University of California-Berkeley, Berkeley, CA, 94720-1460, USA
Organic Letters (2005), 5(18), 3245-3248
CODEN: ORLEFT; ISSN: 1523-7060
American Chemical Society
Journal
English
CASREACT 139:293416
An efficient method for the synthesis of functionalized rhodamine derivs. has been developed. Multigram quantities of these water-soluble fluorophores can be prepared from inexpensive precursors and purified without the use of chromator, A series of protein-reactive functional groups has been installed through subsequent reactions, providing materials for biomol. modification. For multicolor applications, a solid-phase purification strategy has been developed to afford rhodamine derivs. possessing a wide range of spectral properties.
608136-11-4P
RL: RCT (Reactant): SFN (Synthetic preparation): TEM (Technical or engineered material use): PREP (Preparation); RACT (Reactant or reagent); USES (USes)

(1985) (1994) (199 IT

UOBS (USes) (USes) (dye; preparation of functionalized rhodamine dyes for biochem. labeling) 608136-11-4 CAPLUS (ARLES (USES) (1-4 CAPLUS (USES) (1-4 CAPLUS (USES) (USES)

608136-13-6P 608136-14-7P 608136-16-9P RL: RCT (Reactant); SFN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of functionalized rhodamine dyes for biochem. labeling) 608136-13-6 (CAPLUS A), 6-bis(diethylamino)-9-[2-[[4-(3-hydroxypropyl)-1-piperazinylcarbonyl]phenyl]- (CA INDEX NAME) ΙT

L5 ANSWER 14 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

608136-17-0 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-(2-iodoacety1)-1-piperaziny1]carbony1]pheny1]- (CA INDEX NAME)

608136-18-1 CAPLUS Xanthylium, 9-[2-[[4-[2-(acetylthio)acety1]-1-piperaziny1]carbony1]pheny1]-3,6-bis (diethylamino) - (CA INDEX NAME) RN CN

608136-19-2 CAPLUS Xanthylium, 3,6-bis(ethylamino)-2,7-dimethyl-9-[2-(1-piperazinylcarbonyl)phenyl]- (CA INDEX NAME)

RE. CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 15 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
 2003:282394 CAPLUS
 138:304265
 Preparation of N-pytrolopyridinyl carboxamides as Chkl kinase inhibitors
 for treating various forms of cancer and hyperproliferative disorders
 Stavenger, Robert A.; Witherington, Jason; Rawlings, Derek A.; Holt,
 Dennis A.; Chan, George.
 Smithkline Beecham Corporation, USA; Smithkline Beecham Plc
 PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 Patent
 English
 CNT 1 ΙN

ran.	PATENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATB	
ΡI	WO 2003	0287	24		A1		2003	0410		WO 2	002-	US31	842		2	0021	004
	짤:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PH,	PL,
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,
		US,	UZ,	VN,	YU,	ZA,	ZW										
	RW:		GM,	KE,	LS,	MW,	MZ,	SD,		SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	ВG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	BJ,	CF,
			CI,	CM,	GA,	GN,		G₩,	ML,	MR,	NE,		TD,	TG			
	AU 2002				A1		2003			AU 2	002-	3320	43		2	ا0021	004
PRAI					P		2001										
	WO 2002				8		2002	1004									
0 S	MARPAT	138:	3042	65													
CT																	

N-pyrrolopyridinyl carboxamides (shown as I; variables defined below; e.g. N-(5-phenyl-1H-pyrrolo[2,3-b]pyridin-3-yl)benzamide) useful in the inhibition of damage response kinases (no data) are provided. Although the methods of preparation are not claimed, 94 example prepares, are included. For I: RI is aryl or heteroaryl, wherein aryl or heteroaryl may optionally be substituted by ≥1 of group A and on any position with the exception that RI is not 3,4-dichlorophenyl: A = Cl-10 alkyl, Cl-10 alkynl, C2-10 alkynl, C2-10 alkynl, C2-10 alkynl, C3-10 cycloalkyl, C0-6 alkylaryl, C0-6 alkylheteroaryl; 0.0-6 alkylheteroaryl, C(MB)RS, CORS, CONSRM, CONGNORMA, CORKO, CORS, CSRS, CSRS,

L5 ANSWER 15 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- ANSWER 15 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) imidazolyl, triazolyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl and thiadiazolyl; addnl. details are in the claims. 507463-56-19 507463-19 507463-56-19 507463-56-19 507463-56-19 507463-56-19 507465-5
- (Uses)

 (drug candidate: preparation of N-pyrrolopyridinyl carboxamides as Chkl kinase inhibitors for treating various forms of cancer and hyperproliferative disorders)

 507463-66-1 CAPLUS
 Benzoic acid, 2-(6-amino-3-imino-3H-xanthen-9-y1)-4-[[4-[4-[3-[(3-pyridinylarbonyl)amino]-HH-pyrrolo[2,3-b]pyridinylarbonyl]- (CA INDEX NAME)

PAC NH-CH2

PAGE 1-B

507463-67-2 CAPLUS
Benzoic acid, 2-(6-amino-3-imino-3H-xanthen-9-yl)-5-[[4-[[4-[3-[(3-pyridinylcarbonyl)amino]-1H-pyrrolo[2,3-b]pyridiny5-yl]phenyl]methyl]-1-piperazinyl]carbonyl]- (CA INDEX NAME)

ANSWER 16 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2002:826900 CAPLUS 138:49450

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PB DT

ANSWER 16 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN 2002:826900 CAPLUS CO02:826900 CAPLUS CO02:826900 CAPLUS 188:49450 A new class of RNA-binding oligomers: Peptoid amide and ester analogues Kesawan, Venkitasamy: Tamilarasu, Natarajan; Cao, Hong; Rana, Tariq M. Chemical Biology Program, Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA, 01605-2324, USA Bioconjugate Chemistry (2002), 13(6), 1171-1175 COUDN: SCHES; ISSN: 1043-1802 American Chemical Society Journal English (1885; ISSN: 1043-1802 American Chemical Society Journal English (1887), No. 1887,

PAGE 1-A

PAGE 1-B

PAGE 2-B NH

ANSWER 17 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2002:610661 CAPLUS 137:164288 Individual to the standard of t

COUNTS DALINOS, INSULTANCE AMERICAN CONTROL OF THE PROPERTY OF IT

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 16 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

 $\mathop{\mathbb{I}}_{\mathbb{C}-\mathrm{NH}_2}^{\mathbf{0}}$ R-CH-(CH2)3-NH-C-NH2

PAGE 4-A

PAGE 3-A

RE. CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 18 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:447100 CAPLUS
DN 137:17446
TI Rhodamine fluorophore useful as labeling reagent
IN Quiarelo, Ronald H.; Cheon, Liu Win; Yokobata, Kathy E.
So Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.ON 1
PATENT NO KIND DATE APPLICATION NO

PATENT NO. KIND DATE APPLICATION NO DATE

PARENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2002168867 A 20020614 JP 2000-355808 20001122

BPAJ PP 3390161 B2 20030324

A Rhodamine fluorophore and its composition useful as a labeling reagent is provided, with which a substance such as amino acid, pentide, protein, nucleotide and nucleic acid is inexpensively and conveniently labeled in a stable state without lowering an efficiency. A fluorescent substance based on Rhodamine is derivatized, which forms a label-bound body capable of generating fluorescence uson irradiating light with an appropriate wavelength. A particularly preferable example is a certain single isomer of Rhodamine phosphoramidite. With these Rhodamine phosphoramidite, the efficiency in synthesizing a Rhodmine-labeled compound by a solid phase method is stimulated. In this example of label-bound body, the conversion to non-fluorescent lactan is prevented due to the possession of a sufficiently substituted amide linkage derived from 3-carboxylic acid.

II 485504-66-8P 455504-67-9P 435504-78-7P RL: NUU (Other use, unclassified); RCT (Reactant); SPN (Synthetic preparation): PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (Rhodamine fluorophore useful as labeling reagent)

RN 45504-66-8C ACPLU.

Xanthylium, 3,6-bis (dimethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME)

HO-CH2-CH2-N

435304-67-9 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME)

435304-69-1 CAPLUS
Xanthylium, 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-methyl-1-oxo-5, 7-dioxa-2-aza-6-phosphanon-1-yl]phenyl]-5, 6-bis(dimethylamino)- (9Cl) (CA INDEX NAME)

485304-70-4 CAPLUS Xanthylium, 9-[2-[6-[bis(1-methylethyl)amino]-9-cyano-2-methyl-1-oxo-5,7-dioxa-2-aza-6-phosphanon-1-yl]phenyl]-3,6-bis(diethylamino)- (9CI) (CA INDEX NAME)

435304-72-6 CAPLUS
Xanthylium, 3,6-bis(dimethylamino)-9-[2-[[[4-[(2,5-dioxo-1-pvrtolidinyl)oxy]-4-oxobutyl]methylamino]carbonyl]phenyl]- (CA INDEX NAME)

- ANSWER 19 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 2001:863539 CAPLUS 136:1576
- L5 AN DN TI
- DN 136:1576
 TI Oligonucleotides labeled with energy transfer acceptors for use in amplification, hybridization, and ligation assays employing fluorescent nucleic acid stains
 IN Singer, Victoria L.; Haugland, Richard P.

 Molecular Probes, Inc., USA
 OU.S., 25 pp.
 OUDBN: USXXAM
 DT Fatent
 LA English
 FAK.ONI 1

FAN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 6323337	B1	20011127	US 2000-570343	20000512
	GB 2365866	A	20020227	GB 2001-11507	20010511
	GB 2365866	В	20020731		
	CA 2347505	A1	20011112	CA 2001-2347505	20010514
PRAI	US 2000-570343	A	20000512		

CA 2347505 Al 20011112 CA 2001-2347505 20010514 I US 2000-670343 A 20000612 I US 2000-670343 A 20000612 I US 2000-670343 A 20000612 I The invention relates to oligonucleotides labeled with an energy transfer acceptor useful in conjunction with fluorescent nucleic acid stains. The resulting oligonucleotides are useful for decreasing background fluorescence during amplification assays and in ligation assays, and for detecting hybridization. Thus, FCR reactions may be conducted with primers labeled with N,N diphenylrhodamine and the reaction may be monitored in real time if the fluorescent stain STRR Green I is included in the reaction mixture. The background fluorescence in reactions containing these quenched primers is lower than that observed in those containing unlabeled primers, and, in addition, primer dimers do not contribute to the product signal.

304014-14-09 375798-12-2P

RE: RCT (Reactant): STR (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(cligonucleotides labeled with energy transfer acceptors for use in amplification, hybridization, and ligation assays employing fluorescent nucleic acid stains)

304014-14-0 CAPLUS

Authyllum 9-[2-[[4-(ethoxycarbonyl)-1-piperidinyl]carbonyl]phenyl]-3, 6-bis (phenylamino)-, chloride (1:1) (CA INDEX NAME)

375798-12-2 CAPLUS Xanthylium, 9-[2-[[4-[[(2,5-dioxo-1-pyrrolidiny])oxy]carbonyl]-1-piperidinyl]carbonyl]phenyl]-3,6-bis(phenylamino)-, chloride (1:1) (CA INDEX NAME)

11/10/2008

ANSWER 18 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

435304-73-7 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[[2-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1,4-dioxobutoxy]ethyl]methylamino]carbonyl]phenyl]- (CA INDEX NAME)

L5 ANSWER 19 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

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THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 54

L5 AN DN TI IN PA SO DT LA FAN.	ANSWER 20 OF 43 CA 2001:691722 CAPLUS 135:261999 Hair dye compositio Ohashi, Yukihiro: M Saito, Yoshinori Kao Corporation, Ja Eur. Pat. Appl., 11 CODEN: EPXXDW Patent English CNT 1 PATENT NO.	n iyabe, i		88 ACS on STN unaga, Kenichi; Totoki, APPLICATION NO.	Shintaro;
PI	EP 1133975	A2	20010919	EP 2001-106318	20010315
	EP 1133975	A3	20040317		
	EP 1133975 R: AT, BE, CH,	B1 DE, DK	20080213 ES, FR, GB	, GR, IT, LI, LU, NL, S	TE MC DE
	IE, SI, LT,		, ES, FR, GD , RO	s, GRs, II, LI, LU, NL, i	DE, MU, FI,
	JP 2001261534	A	20010926	JP 2000-76638	20000317
	JP 2001288055	A	20011016	JP 2000-107180	20000407
	JP 2001288056	A	20011016	JP 2000-107188	20000407
	JP 2001288058	A	20011016	JP 2000-107189	20000407
	JP 2001288059 JP 2001328925	A A	20011016 20011127	JP 2000-107190 IP 2000-107178	20000407 20000407
	JP 2001328929	A	20011127	JP 2000-1071787	20000407
	JP 2001328930	Ä	20011127	JP 2000-193184	20000627
	JP 2002012524	A	20020115	JP 2000-193177	20000627
	JP 2002012525	A	20020115	JP 2000-193178	20000627
	JP 2002012532	A	20020115	JP 2000-193180	20000627
	JP 2002012529 TP 2002012527	A A	20020115 20020115	JP 2000-193181 TP 2000-193188	20000627 20000627
PRAT	JP 2002012327 JP 2000-76009	A	20020113	JF 2000-195100	20000027
1 1011	TP 2000-76637	A	20000317		
	JP 2000-76638	Ä	20000317		
	JP 2000-76668	A	20000317		
	JP 2000-107178	A	20000407		
	JP 2000-107180	Ą	20000407		
	JP 2000-107187 JP 2000-107188	A A	20000407 20000407		
	JP 2000-107189	A	20000407		
	TP 2000-107190	Ä	20000407		
	JP 2000-193177	A	20000627		
	JP 2000-193178	A	20000627		
	JP 2000-193180	A	20000627		
	JP 2000-193181 TP 2000-193184	A A	20000627 20000627		
	JP 2000-193184 JP 2000-193188	A A	20000627		
OS.	MARPAT 135:261999	4.5	20000021		
GI					

L5 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L5 ANSWER 20 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

A hair dye composition comprises a direct dye compound (I, RI, R2 = e.g., H, lower alkyl or aralkyl, R3, R5 = H, halo, lower alkyl or alkoxy, R4 = lower alkyl or (substituted) Ph, R6, R7 = lower alkyl, R8 = H, Me, or cyano and A = anion). I have markedly hair dyeing power, less color fade over time and do not undergo a change in the color shade of the dye even after storage. Thus, a formulation contained dye 0.2, guar gum 1, Gasquat-754 1, monoethanolamine 0.1, EMPO4 to H9, perfume qs, and water to 100 g. R1, BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(USES)
(hair dye composition)
105:99-24-8 CAPLUS
Benzanide, 2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]N,N-dimethyl- (CA INDEX NAME)

RN CN

 $\label{eq:continuous} $$125282-76-0$$ CAPLUS $$Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-3-(2,7-dimethyl-3H-xanthen-9-yl]-N-[2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H-xanthen-9-yl]benzoyl]-$$ (CA INDEX NAME)$

361175-98-6 CAPLUS Benzamide, N-ethyl-2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl]-N-methyl- (CA INDEX NAME)

L5 ANSWER 21 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:416484 CAPLUS
DN 135:16571
I Freparation of protein conjugates
IN Kretzschmar, Gerhard: Ziegler, Thomas; Gerling, Sonja; Lang, Martin
PA Aventis Research and Technologies GmbH and Co. KG, Germany
SO Bur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN. CNT 1
PATENT NO KIND DATE APPLICATION NO DATE

PATENT NO KIND DATE APPLICATION NO DATE

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PATENT NO. KIND DATE APPLICATION NO. DATE
PI EP 1104677 A2 20010606 EP 2000-122132 20001012
EP 1104677 A2 200107606 EP 2000-122132 20001012
R. AT. BS. CH. DS. DK. SS. FR. GS. GR. IT. LI, LU, NL, SS. MC, PT, BE 19967916 IN CO. SC. ANDER WILLIAM ST. MC, PT, BE 19967916 IN CO. SC. ANDER WILLIAM ST. MC, PT, BE 19967916 IN CO. SC. ANDER WILLIAM ST. MC, PT, BE 19967916 IN CO. SC. ANDER WILLIAM ST. MC, PT, BE 19967916 IN CO. SC. ANDER WILLIAM ST. ANDER ST. AND ST. ANDER ST. AND ST. ANDER ST. AND ST. ANDER ST. ANDER ST. AND ST. ANDER ST. AND ST.

Absolute stereochemistry.

PAGE 1-A

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PAGE 2-A

ANSWER 22 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Benzamide, N-(6-hydroxyhexy1)-N-methy1-2-[6-(phenylamino)-3-(phenylimino)-3-(phen

304014-14-0P RL: PRP (Properties); RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation of xanthene dyes as luminescence quenching labels) 304014-14-0 CAPLUS

(Dreparation of Additional Open as a summinosity of CAPLUS (Addit-14-0 CAPLUS (Additional Open and Ope

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THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 5

L5 ANSWER 22 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2000:772712 CAPLUS
D1 13:336549
TI Xanthene dyes and their application as luminescence quenching compounds
H Haugland, Richard P.; Singer, Victoria L.; Yue, Stephen T.
Molecular Probes, Inc., USA
OPCT Int. Appl., 66 pp.
CODEN: PIXXO2
TP Patent
LA English
FAN ONT 1
PATENT NO PATENT NO. KIND DATE APPLICATION NO. DATE PT

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 2000064988
 A1
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 2000-US10740
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 GR,
 IE,
 IT,
 LU,
 MC,
 NL,
 NL,

B1 B2 T P US 2000-556464 AU 2000-44781 AT 2000-926217 AU 751168 AU 751168 AT 233795 PRAI US 1999-130808P W0 2000-US10740 OS MARPAT 133:336549 20020004 20020808 20030315 19990423 20000421 $\begin{array}{c} 20000421 \\ 20000421 \end{array}$

OS GT

L5 ANSWER 23 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1999:699224 CAPLUS
DN 131:341385
IT TriaryImethane compound and heat-developable photographic material
containing the same
Pujiwara, Yoshiki
PA Fuji Photo Film Co., Ltd., Japan
S Jpn. Kokai Tokkyo Koho, 22 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN. CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE JP 11302550 JP 1998-113970 MARPAT 131:344185 19991102 19980423 JP 1998-113970 19980423

The new triarylmethane compound is represented by I or II (A, B, C, D, E, F, G = aryl, aromatic heterocycle; Rl, RS = electron withdrawing group; R2, R4 = alkyl; X, Y = counter ion). The above commound is placed in the filter layer of the heat-developable photog. film.

249742-41-4P (SUES)

(triarylmethane dye in magenta filter layer of heat-developable photog. film)

249742-41-4 (CAPLUS

Xanthylium, 9-[2-[[bis(cyanomethyl)amino]carbonyl]phenyl]-3,6-bis(methylphenylamino)- (CA INDEX NAME) AB

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:87723 CAPLUS
0REF 128:30349a, 30352a
TI Covalently immobilized fluoroionophores for optical ion sensors
IN Barnard, Steven Mark: Beerli, Rene; Berger, Joseph; Reinhoudt, David; Waldner, Adrian
PA Novartis A -G., Switz.
OPCT Int. Appl., 89 pp.
CODEN: PIXXD2
D Patent
LA English
FAN.CNT |
PATENT NO. KIND DATE APPLICATION NO. DATE 19970721 CZ, DE, KR, KZ, NZ, PL, UG, US, OS GI

ANSWER 24 0F 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Compds. constructed in a modular manner, e.g., I, wherein I is the monovalent residue of an ionophore, F is the monovalent residue of a fluorophore, G is a functional group, T is a trivalent organic radical, and Rl, R2, and R3 are a direct bond or a bridging group are prepared as active components in polymer membranes of optical sensors for the detection of ions. An example is II. The sensors are distinguished by a long usable life and a high degree of sensitivity.

202603-72-59 202603-74-59 202603-76-72

202603-78-99 202603-78-69 202603-78-99

202603-87-09 202603-88-1P

RL: ARS (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (covalently immobilized fluoroionophores for optical ion sensors) 202603-72-3 CAPLUS

Assumption of the control of th

CM 1

CRN 202603-71-2 CMF C54 H80 N7 05

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

CM 2

CRN 14477-72-6 CMF C2 F3 02

F-C-C02

202603-74-5 CAPLUS Xanthylium, 9-[5-[[(2S)-2-amino-6-[[12-[(2-methyl-1-oxo-2-propen-1-yl)amino]-1-oxododecyl]amino]-1-oxobexyl]amino]-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN CM 1

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

2 CM

CRN 14477-72-6 CMF C2 F3 02

 $\label{eq:202603-76-7} $$2603-76-7$ CAPLUS $$Xanthylium, 3,6-bis (dethylamino) -9-[2-[(diethylamino) carbonyl]-4-[[6-[[12-[(2-methyl-1-oxo-2-propenyl)amino]-1-oxododecyl]amino]-2-[[[6,7,9,10,12,13,15,16-octahwdro-29,32-dipronoxy-28H-4,18-(methano[1,3] benzenomethano]-23,2-proteheno-22H-dibenzo [n,w][1,4,7,10,13] pentaoxacyclotetracosin-25-y1] carbonyl]amino]-1-oxohexyl]amino]-phenyl]-, (S)-, sait with trifluoroacetic acid (1:1) (9CI) (CA NDEX NMME)$

CM 1

CRN 202603-75-6 CMF C97 H128 N7 013

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

CM 2 CRN 14477-72-6 CMF C2 F3 02

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 14477-72-6 CMF C2 F3 02

202603-83-6 CAPLUS Xanthylium, 9-[4-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diaaadoos-27-en-1-yl)amino]-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)- (S)-, salt with trifluoroacetic acid (I:1), mono(trifluoroacetic) (9(I)) (CA INDEX NAME)

CM 1

CRN 76-05-1 CMF C2 H F3 02

CM 2

CRN 202603-82-5 CMF C50 H72 N7 08 . C2 F3 02

CM 3

CRN 202603-81-4 CMF C50 H72 N7 08

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 1

CRN 202603-77-8 CMF C97 H128 N7 013

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

 \sim NEt₂

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Absolute stereochemistry.

PAGE 1-B

CM 4

CRN 14477-72-6 CMF C2 F3 02

202603-86-9 CAPLUS
Xanthylium, 9-[5-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl)amino]-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis(diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1), mono(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 76-05-1 CMF C2 H F3 02

CM 2

CRN 202603-85-8 CMF C50 H72 N7 08 . C2 F3 02

CM 3

CRN 202603-84-7 CMF C50 H72 N7 08

Absolute stereochemistry.

CM 4

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

t-Bu-

PAGE 1-B

202603-88-1 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[21-methyl-1,8,20-tricoxo-2-[[[[5,11,17,23-tertakis(1,1-dimethylethyl)-26,27,28-tris(2-ethoxy-2-oxoethoxy)pentacyvelo[19,3.1.15,7,19,18.115,19]octacosa-1(25),3,5,7(28),9,11,13(27),15,17,19(26),21,23-dodecaen-25-yl]oxy]acetyl]amino]-10,13,16-tricoxa-7,19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

202603-87-0 CAPLUS
Xanthylium, 3.6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[21-methyl-1, 8, 20-thioxo-2-[[[[5, 11, 17, 23-tetrakis(1, 1-dimethylethyl)-26, 27, 28-tis(2-ethoxy-2-oxoethoxy)pentacyclo[[9, 3, 1, 13, 7, 19, 13, 118, 19]octacosa-1(26), 3, 5, 7(28), 9, 11, 13 (27), 15, 17, 19(26), 21, 23-dodecaen-25-1(26), 13, 13, 15-tioxa-7, 19-diazadocos-21-en-1-yl]aminolphenyl]-, chloride, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

PAGE 2-B

PAGE 3-A

ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN bis(diethylamino)-, chloride (1:1) (CA INDEX NAME) (Continued)

• C1 -

202603-53-0 CAPLUS Xanthylium, 9-[5-amino-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

202603-58-5 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(ethoxycarbonyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

11/10/2008

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 3-B

202603-49-4P 202603-50-7P 202603-51-8P 202603-53-0P 202603-53-0P 202603-58-5P 202603-59-6P 202603-61-0P 202603-62-1P 202603-61-0P 202603-62-1P 202603-61-0P 202603-61-0P 202603-61-0P 202603-61-0P 202603-79-0P 202603-80-3P REP (Preparation); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant) or reagent) (covalently immobilized fluoroionophores for optical ion sensors) 202603-49-4 (APLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-nitrophenyl]-, chloride (1:1) (CA INDEX NAME) IT

202603-50-7 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-5-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

202603-51-8 CAPLUS Xanthylium, 9-[4-amino-2-[(diethylamino)carbonyl]phenyl]-3, 6-

ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

202603-59-6 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(hydroxymethyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

● C1 =

202603-61-0 CAPLUS Xanthylium, 9-[4-(chloromethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

202603-62-1 CAPLUS Xanthylium, 9-[4-(azidomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

• c1 -

202603-64-3 CAPLUS Xanthylium, 9-[4-(aminomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride, hydrochloride (1:1:1) (CA INDEX NAME)

 $\label{eq:202603-69-8} \begin{array}{ll} \text{202603-69-8} & \text{CAPLUS} \\ \text{Xanthylium,} & 3.6 \text{-bis} (\text{diethylamino}) \text{-9-[2-[(diethylamino) carbonyl]-4-[[(2S)-2-[((1,1-c)methyl-1-oxo-2-proten-1-yl) amino]-1-oxodecyl] amino]-1-oxobexyl] amino]-1-oxodecyl] amino]-1-oxobexyl] amino]-1-oxodecyl] amino]-1-oxode$

Absolute stereochemistry.

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

202603-80-3 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[(2S)-2-[[(1,1-diethylethoxy)carbonyl]amino]-2]-methyl-1,8,20-trioxo-10,13,16-trioxa-7,19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride (1:1) (CA INDEX NAME)

Absolute stereochemistry

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

202603-70-1 CAPLUS
Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[(2S)-2-[([,1]-diethylethoxy)carbonyl]amino]-6-[(12-[(2-methyl-1-oxo-2-propen-1-yl)amino]-1-oxododecyl]amino]-1-oxobexyl]amino]phenyl]-, chloride (1:1)
(CA INDEX NAME)

Absolute stereochemistry.

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ &$$

• c1=

202603-79-0 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[(2S)-2-[[(],1-dimethylethoxy)carbonyl]amino]-2]-methyl-1,8,20-trioxo-10,13,16-trioxa-7,19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride (1:1) (CA NDEX NAME)

Absolute stereochemistry.

L5 ANSWER 24 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 3

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ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1997:732189 CAPLUS
DN 128:41649
OREF 128:609a,8042a
TI High capacity optical recording medium containing xanthene dyes
N Wolleb, Heinz: Schmidhalter, Beat; Budry, Jean Luc
Ciba Specialty Chemicals Holding Inc., Switz.
S Eur. Pat. Appl., 50 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN. CNT 1
PATENT NO. KIND DATE APPLICATION NO. DA
PI EP 805441 A1 19971105
EP 805441 B1 20031008
R: CH DE, FR, GR IT, LI, NL, SE
CA 2204209 A1 19971100
P 100077732 A 19980414
PRAI CH 1996-1155 A 19960508
GI
                                                                                                                                                                                                                                                           DATE
                                                                                                                                                                     EP 1997-810248
                                                                                                                                                                                                                                                           19970422
                                                                                                                                                                      CA 1997-2204209
JP 1997-114730
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$$(z^{\mathfrak{ml}_{+}})_{\mathfrak{p}}1 \left[\begin{array}{c} R^{6} & R^{8} & R^{3} & R^{1} \\ R^{7} & & & & \\ R^{9} & & & & \\ R^{10} & & & & \\ R^{11} & & & & \\ R^{5} & & & & \\ \end{array} \right]_{\mathfrak{q}} (y^{\mathfrak{m}^{2}_{-}})_{\mathfrak{p}}^{2}$$

The title material comprises a substrate, a reflection layer and a recording layer, wherein the recording layer consists mainly of a dye I (R1, R2 = H, substituted alkyl, alkenyl, alkynyl, aralkyl, aryl; R6, R7 = alkyl, alkenyl, arklyl, aralkyl, aryl; R8, R8, R9 = H, halo, ORI7, SR17, NR1SR19, NO2, alkyl, alkenyl, alkenyl, alkynyl, aralkyl, R8, R8, R9 = H, halo, ORI7, SR17, NR2, NR1SR19, alkenyl, alkenyl, alkenyl, alkynyl, aralkyl; R11 = H, (CH2) 1-10C00, (CH1) 1-10C00624, alkyl, alkenyl, alkynyl, substituted aralkyl, aryl; Y = anion o inorg, organic or metalorg, acid; Z = cation of metal, ammonium or phosphoniumin, nn2, q = 1-3; nl, n2 = 0-4; substituted together with neighboring substitutent may form 5- to 6-membered ring; R17-19 = H, C1-20 alkyl, C2-20 alkenyl, etc.). The medium has high sensitivity and good reproducibility, 190605-62-4P 199605-70-69 199605-78-2P 199605-86-2P 199605-87-3P 199605-87-89-3P 199605-80-81-90 199606-10-5P 199606-10-6P 199606-10-2P 199606-10-6P 199606-11-6P 199606-12-PP 199606-10-6P 199606-11-6P 199606-11-PP 1996

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 1

CRN 199605-70-4 CMF C34 H44 N3 02 . C32 H24 Co N8 010

CM 2

CRN 199605-69-1 CMF C34 H44 N3 02

CM 3

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-,chloride (1:1) (CA INDEX NAME)

199605-70-4 CAPLUS Xanthylium, 3,6-bis (diethylamino) -9-[2-[(dipropylamino) carbonyl]phenyl]-, bis [2-[[2-(hydroxy-K0)-5-nitrophenyl]azo-KNl]-3-(oxo-K0)-N-phenylbutanamidato(2-)]cobaltate(1-) (9C1) (CA INDEX NAME)

CRN 199605-69-1 CMF C34 H44 N3 02

CM2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 1

CRN 199605-69-1 CMF C34 H44 N3 02

CM 2

CRN 68448-45-3 CMF C34 H26 Cr N10 012 S2 CCI CCS

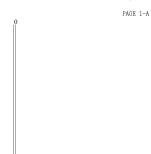
PAGE 1-A

PAGE 2-A

 $\begin{array}{ll} 199605-76-0 & \text{CAPLUS} \\ \text{Xanthylium, 3.6-bis(diethylamino)}-9-[2-[(dipropylamino) carbonyl]phenyl]-, \\ [3-[4-[5-(2,2-dimethylpropyl)-2-(hydroxy-MO)-3-nitrophenyl]azo-MN]-4, & dihydro-3-methyl-5-(oxo-MO)-1H-pyrazol-1-yl]benzenesulfonamidato (2-)][3-[4,5-dihydro-4-[2-(hydroxy-MO)-5-methyl-3-nitrophenyl]azo-MN]-3-methyl-5-(oxo-MO)-1H-pyrazol-1-yl]benzenesulfonamidato (2-)]chromate(1-) (9CI) & (CA INDEX NAME) \\ \end{array}$

CRN 199605-75-9 CMF C38 H36 Cr N12 012 S2 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



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PAGE 3-A

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

199605-78-2 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-,
bis[3-[[4,5-dihydro-3-methyl-5-(oxo-40)-1-phenyl-lH-pyrazol-4-yl]azo(**NJ]--henyl-4-(hydroxy-**Obenzenesufonamidato(2)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 199605-77-1 CMF C44 H50 Co N10 08 S2 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 199605-69-1 CMF C34 H44 N3 02

CRN 199605-85-1 CMF C34 H26 C12 Co N8 08 S2 CCI CCS

PAGE 2-A

CM 2

CM 2

CRN 199605-69-1 CMF C34 H44 N3 02

 $\begin{array}{ll} 199605-87-3 & CAPLUS \\ Xanthylium, & 3.6-bis (diethylamino) -9-[2-[(dipropylamino) carbonyl]phenyl]-, \\ bis [2,4-dihydro-4-[2-(hydroxy-k0)-5-nitrophenyl]azo-kNl]-5- \\ methyl-2-phenyl-3H-pyrazol-3-onato(2-)-kU3]cobaltate(1-) (9CI) & (CA INDEX NAME) \\ \end{array}$

CM 1

CRN 199605-69-1 CMF C34 H44 N3 02

CM

CRN 51274-15-8 CMF C32 H22 Co N10 08 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

CRN 199605-69-1 CMF C34 H44 N3 02

CM 1

CRN 199605-69-1 CMF C34 H44 N3 O2

CM 2

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

 $\begin{array}{lll} 199605-89-5 & CAFLUS \\ Xanthyllum, & 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-, \\ bis[4-(hydroxy-80)-3-[[2-(hydroxy-80)-1-naphthalenyl]azo-whylbenzenesulfonanidato(2-)lcobaltate(1-) (9Cl) & (A INDEX NAME) \\ \end{array}$

CRN 199605-88-4 CMF C32 H22 Co N6 08 S2 CCI CCS

PAGE 1-A

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

199605-95-3 CAPLUS Xanthylium, 3.6-bis(diethylamino)-9-[2-[(dipropylamino) carbonyl]phenyl]-, bis[2,4-dihydro-4-[(2-(hydroxy-KO)-5-nitrophenyl]azo- κ NI]-5-methyl-2-phenyl-3H-pyrazol-3-onato(2-)- κ OS]chromate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 199605-69-1 CMF C34 H44 N3 O2

CM 2

CRN 51274-14-7 CMF C32 H22 Cr N10 08 CCI CCS

199606-09-2 CAPLUS Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

• c1 -

199606-10-5 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) N-phenylbutanamidato(2-)]cobaltate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 199606-26-3 CMF C30 H36 N3 02

2 CM

51745-75-6 C32 H24 Co N8 010 CCS

 $\begin{array}{lll} 199606-29-6 & \text{CAPLUS} \\ \text{Xanthylium}, & 3, 6-\text{bis} (\text{dethylamino}) -9-[2-[(\text{diethylamino}) \text{carbonyl}] \text{phenyl}] -, \\ \text{bis}[2-[[2-(\text{hydroxy-k0})-5-\text{nitrophenyl}] \text{azo-kNI}]} -3-(\infty xo-k0) - \\ \text{N-phenylbutanamidato}(2-)] \text{cobaltate}(1-) & (\text{QCI}) & (\text{CA INDEX NAME}) \\ \end{array}$

CM 1

CRN 199606-28-5 CMF C32 H40 N3 02

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

• c1 -

199606-11-6 CAPLUS Xanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

199606-12-7 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

 $\label{eq:condition} 199606-27-4 \quad \text{CAPLUS} \\ \text{Xanthylium, } & \text{0-b-is (diethylamino)} -9-[2-[(\dim \text{ethylamino}) \, \text{carbonyl}] \, phenyl] -, \\ \text{bis}[2-[[2-(hydroxy-\%0]-5-nitrophenyl] \, azo-\text{WNI}]} -3-(\infty x-\text{WO}) - \\ \text{0-condition} \\ \text{0-condition}$

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM

51745-75-6 C32 H24 Co N8 010 CCS

CM 1

CRN 199606-30-9 CMF C36 H48 N3 02

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

 $\begin{array}{lll} 199606-33-2 & CAPLUS \\ Xanthylium, & 3,6-bis (diethylamino) -9-[2-(1-piperidinylcarbonyl)phenyl]-, \\ bis[2-([2-(Nydroxy-0)-5-nitrophenyl]_{3:20-eNyl]-3-(oxo-eO)}-N-phenylbutanamidato(2-)]cobaltate(1-) & (9CI) & (CA_INDEX_NAME) \\ \end{array}$

CRN 199606-32-1 CMF C33 H40 N3 02

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

D1-N02

● C1-

 $\label{eq:continuous} \begin{array}{lll} 199744-95-1 & CAPLUS \\ Xanthyllum, & 3,6-bis (dibutylamino) -9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyll, & bis [2-[[2-(hydroxy-KO)-5-nitrophenyl]azor & KNI]-3-(xxx-KO) -N-phenylbutanamidato (2-)]cobaltate (1-) & (GA INDEX NAME) & \\ \end{array}$

CM 1

CRN 199744-94-0 CMF C42 H59 N4 04 CCI IDS

 $D1-No_2$

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

199682-43-4 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

 $\mathtt{D}1\!-\!\mathtt{N}\!o_2$

c1-

199682-50-3 CAPLUS
Xanthylium, 3,6-bis(dibutylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

L5 ANSWER 25 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

199744-86-0P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation): USES (Uses) (preparation of dye for high capacity optical recording medium) 199744-86-0 CAPLUS
Atanthylium, 3.6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyl]-, bis[2-[[2-(hydroxy-KO)-5-nitrophenyl] azo\$Nl]-3-(xox-WO)-N-phenylbutanamidato(2-)|cobaltate(1-), compd. with sodium chloride (NaCl) (1:1) (9Cl) (CA INDEX NAME)

CM 1

CRN 7647-14-5 CMF C1 Na

CM 2

CRN 199744-85-9 CMF C34 H43 N4 O4 . C32 H24 Co N8 O10

CM 3

CRN 199744-84-8 CMF C34 H43 N4 04 CCI IDS

D1-NO2

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1997:439246 CAPLUS
DNE 127:149828
OREF 127:28865a, 28868a
T1 Simple synthetic receptors that bind peptides in water
AU Torneiro, Mercedes; Still, W. Clark
Department of Chemistry, Columbia University, New York, NY, 10027, USA
Tetrahedron (1997), 53(26), 8739-8750
CODEN: TBTRAB: ISSN: 0040-4020
PB Elsevier
DT Journal
LA English
AA simple two-armed receptor has been prepared that binds certain peptides sequence-selectively in water at pH 4.
I 193536-40-8-4 193536-42-56-P 193536-42-66P
RE: BPR (Biological process): BSU (Biological study, unclassified); SFN
(Synthetic preparation): BIOL (Biological study): PREP (Preparation): FROC
(Process)
(Synthetic receptors that bind peptides in water)
RN 193536-40-8-4 CAPLUS
Nanthylum, 9-[2-[[4,5-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2,1,27,28,28a-eicosahydro-7,13,2],27-tetraoxo-1H,13H-8,12:22,26-dimethenobis;azepiol(4,5-bis (1948-R),18aR+1,184-1848,28aR*)],14aR*,1
9aR*,28aR*], salt with trifluoroacetic acid, trifluoroacetate (I:1:3)
(CM 1

CM 1

CRN 76-05-1 CMF C2 H F3 02

CM 2

CRN 194279-19-1 CMF C92 H108 N17 012 . C2 F3 02

CM 3

CRN 193354-07-3 CMF C92 H108 N17 012

Absolute stereochemistry.

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 4

CRN 14477-72-6 CMF C2 F3 02

19354-25-5 CAPLUS
Xanthylium, 9-[2-[[3,4-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2,1,27,28,28a-cioosahydro-7,13,21,27-tetraoxo-iH,18H-8,12:22,26-dimethenobisazepino[4,5-b:4',5'-m][1,4,12,15] tetraazacyclodocosin-10-yi)carbonyl]mminol--pyrrolidinyl]carbonyl]phenyl]-2,6-bis(diethylamino)-coniugate acid (1:4), [5a8-[364,19a8+,28aR*]],14aR*,19aR*,28aR*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

19354-26-6 CAPLUS Xanthylium, 9-[2-[[3,4-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2],27,28,28a-ciosahydro-7,13,21,27-tetraoxo-1H,13H-8,12:22,26-dimethenobisaxepino[4,5-b:4',5'-m][1,4,12,15] tetraaxacyclodocosin-10-yl)carbonyl]mino]-1-pyrrolidinyl]carbonyl]phenyl]-2,6-bis(diethylamino)-,conjugate acid (1:4), [5a5-[3,4,14aR*,19aR*,28aR*]],14aR*,19aR*,28aR*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)



- 19354-12-0P 19354-24-4P
 RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (synthetic receptors that bind peptides in water)
 19354-12-0 CAPLUS
 Xanthylium, 9-[2-[14, 5-bis[[9H-fluoren-9-ylmethoxy]carbonyl]amino]hexahydro-lH-azepin-1-yl]carbonyl]phenyl]-3, 6bis (diethylamino)-, (48-trans)- (9CT) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

193354-24-4 CAPLUS Xanthyllum, 9-[2-[[4,5-bis[[[3,17-bis[(1,1-dimethylethoxy)carbonyl]-

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A

ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,21,27,28,28a-eicosalhydro-7,13,21,27-tetraoxo-1H,13H-8,12:22,26-dimethenobisacepino(4,5-b-4',5'-m][1,4,12,15] tetraaxacyclodocosin-10-y1]carbonyl]amino]hexahydro-1H-azepin-1-y1]carbonyl]phenyl]-2,6-bis(diethylamino)-;[6ao-[5aR*,104R*,5R*(5aR*,14aR*,19aR*,28aR*)],14aR*,19aR*,28aR]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L5 ANSWER 26 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 24

L5 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RE. CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 27 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 1997:18870 CAPLUS 126:152417 126:293194, 29322a L5 AN DN OREF TI

126:28319a,29822a
Specificity of Aminoglycoside Binding to RNA Constructs Derived from the 16S rRNA Decoding Region and the HIV-RRE Activator Region Wang, Yong; Hamasaki, Keita; Rando, Robert R.
Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, Boston, MA, 02115, USA Biochemistry 1997), 26(4), 768-779
CODEN: BICHAW: ISSN: 0006-2960
American Chemical Society
Journal

SO

PB DT

American Chemical Society
Journal
English
Aminglycoside antibiotics can bind to many different types of RNA mols.
It was of interest to determine the nature of the selectivity of binding of aminglycosides to important, biol. relevant RNA targets. Fluorescence anisotropy methods were developed to quant. measure aminglycosides affinities to constructs of the HIV-1 RRE transcriptional activation region and the prokaryotic rNNA decoding region which is the natural antibacterial target of the aminglycosides. A fluorescent analog of Rev34-50 (Fl-Rev44-50) was prepared and shown by fluorescence anisotropy measurements to bind to the HIV-1 RRE region with a stoichiometry of 1 and a dissociation constant of 7.6 mM. RRE RNA is a target for the arginine rich Rev protein, and the binding is known to be mimicked by Rev34-50. The binding is driven by a strongly neg, enthalpic term. Aminoglycosides compete with Fl-Rev34-70 binding and competition expts. with semisynthetic aminglycosides and neomycin B and tobramycin show binding affinities in the 1-2 MP range. The binding of aminoglycosides to this construct is thus not highly selective. A prokaryotic rNAA construct was also repared and shown to bind a fluorescent dye labeled derivative of the antibiotic paromonycin (CRP) stoichiometrically with a dissociation constant of 0.16 MM. Competition expts. with other aminoglycoside showed binding in the micromolar range, with not a great deal of specificity for aminoglycoside type, suggesting that much of the aminoglycoside mol. is not involved in binding. The relatively modest specificity in the binding of aminoglycoside described above is to be contrasted to the subnanomal affinities and specificity of aminoglycoside binding found using in vitro selected RNA mols.

18703-35-5P
RN. BPR (Biological process): BSU (Biological study, unclassified): SPN (Synthetic preparation): PROC (Process): ISBS (Uses)

(specificity of aminoglycoside binding to RNA constructs derived from the 16s rRNA decoding region and the HIV-RRE activator Region)

Absolute stereochemistry.

123:15053a,15056a
Sequence-Selective Binding of Peptides in Water by a Synthetic Receptor Molecule
Molecule
Molecule
Morecedes; Still, W. Clark
Commission of Chemistry, Columbia University, New York, NY, 10027, USA Opportunity of Chemistry, Columbia University, New York, NY, 10027, USA Opportunity of Molecular Society (1995), 117(21), 5887-8
American Chemical Society
Journal
Journal
Fig. 13: No. 2002-7863
Revision of Molecular Society (1995), 117(21 OREF TI

PB DT LA OS GI English CASREACT 123:83992

CM 1

CRN 165195-65-3 CMF C128 H148 N22 016

PAGE 1-A

L5 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

PAGE 3-A

■2 C1=

165195-69-7 CAPLUS Xanthylium, 9-[2-[[(4S,5S)-4,5-diaminohexahydro-1H-azepin-1-yi]carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

L5 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14477-72-6 CMF C2 F3 02

L5 ANSWER 29 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1992:13465 CAPLUS
D1 116:13465
DREF 116:2323a, 2326a
T1 Optical image-recording material
IN Yanagihara, Naoto: Iwakura, Ken; Endo, Tosiaki; Saeki, Keiso
PA Fuji Photo Film Co., Ltd., Japan
U.S., 7 pp.
CODEN: USXAMM
DT Patent
LA English
FAN.CNT 2
PATENT NO. KIND DATE APPLICATION NO.

11111.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5051333	A	19910924	US 1990-541865	19900623
	JP 03025433	A	19910204	JP 1989-160155	19890622
	JP 03259137	A	19911119	JP 1990-57659	19900308
PRAI	JP 1989-160155	A	19890622		

JP 1990-57659 MARPAT 116:13465

R2R1N R4

An optical recording material is described in which (1) a reducing agent and (2) a composition containing a photooxidizing agent and an oxidizable leuco dye are used where one of the above components is microenapsulated and the other one is not. The microcapsules have walls made from a material which lowers its permeability barrier to 21 component selected from the reducing and oxidizing agents when the wall material is heated above its glass transition temperature The leuco dye is I (R1, R2 = alky1, alkeny1, alkyny1, R3 = alky1; R4 = alky1, carbanoy1, amino. O285 (R5 = R5); X = electron-attracting group]. The material can produce images with excellent stability and a black hue.

RE: USBS (Uses)

(microencapsulated optical imaging composition containing)
138033-91-7

CAPLUS (CHE)
Benzamide, 2-[6-(diethylamino)-2-[ethyl3-(trifluoromethyl)phenyl]amino]9H-xanthen-9-yl]-N,N-dimethyl- (CA INDEX NAME)

IT

- L5 ANSWER SO OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1900:218769
 NR 112:218769
 OREF 112:36944h, 36945a
 II Basic rhodamine dyes, jet-printing inks containing them, and their use in dyeing basic
 IN Mayer, Udo; Oberlinner, Andreas
 PA BASF A. G., Fed. Rep. Ger.
 SO Eur. Fat. Appl., 6 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1
 PATENT NO. KIND DATE PATENT NO. KIND DATE APPLICATION NO. DATE PATENT NO. KIND I

 EP 347697 A2

 EP 347697 A3

 EP 347697 B7

 R: AT, CH, DE, FR, GB,

 DE 3821196 A1

 CA 1399276 C

 AT 97153 T

 US 4935059 A

 FI 91288 B

 FI 91288 C

 FI 91288 C

 PRAI DE 1988-3821196 A

 EP 1988-3821196 A

 EP 1988-10567 A

 B8 MARPAT 112:218769

 GI 19891227 EP 1989-110567 19890610 19891227 19910227 19931110 , IT, LI, 19900215 19970812 19931115 19900619 19891224 19940228 19940610 19900221 19880623 19890610 NL, SE
 DE 1988-3821196
 CA 1989-601818
 AT 1989-110567
 US 1989-366450
 FI 1989-3045 19880623 19890605 19890610 19890615 19890621 JP 1989-159827 19890623 OS GI
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

 AB Basic dyes I [A-= anion; L = C2-10 alkylene; R1-R3 = H, (un) substituted C1-10 alkyl or C5-7 cycloalkyl, or RR2N = pyrrolidino, piperidino, morpholino, piperazino, N-(C1-4 alkyl)piperazino; m, n = 0, 1] are useful for dweing paper materials or as colorants for jet-printing inks. Thus, II was heated with Me2N(CH2)3NH2 in the presence of P205 at 120° for 6 h, producing I (L = G12CH2CH2, R1 = R2 = Me, m = n = 0), \(\lambda \text{max} \)

 534 mm, which dyed paper a brilliant, fast red shade.

 I 125282-76-0P

 RI: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

 (Ranufacture and quaternization of, as red dye for paper and jet-printing inks)

 RN 125282-76-0C CAPILIS

 ON Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl] benzoyl] (CA INDEX NAME)

L5 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

127193-48-0P RL: PREP (Preparation) (manufacture of, as dye for paper and jet-printing inks) 127193-48-0 CAPLUS (Propanaminum, 3-[bis[2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl]benzoyl]amino]-N,N,N-trimethyl-, methyl sulfate (9CI) (CA TUDEX NAME)

CM 1

CM 2

CRN 21228-90-0 CMF C H3 04 S

L5 ANSWER 30 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

Me-0-S03-

ANSWER 31 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1989:425096 CAPLUS
DN 111:25096
OREF 111:43601a,4364a
TI Storage temperature control label and its manufacture
TI Tanaka, Eiji; Tsutsumi, Haruki; Akahori, Hiroyuki; Hasegawa, Kiyoharu;
Asano, Makoto
M Mitsui Toatsu Chemicals, Inc., Japan
Jon. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.ON 1
PATENT NO. KIND DATE ADDITICATION MO. TATE

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63165478 JP 1986-315779	A	19880708 19861226	JP 1986-315779	19861226

L5 ANSWER 32 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

IT

117062-58-8 117047-17-3
RL: RCT (Reactant): RACT (Reactant or reagent)
(reaction of, with oligonucleotides)
117032-53-8 CAPIUS
Xanthylium, 3,6-bis (dimethylamino)-9-[3-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]phenyl]- (CA INDEX NAME)

117047-17-3 CAPLUS Xanthylium, 3,6-bis(dimethylamino)-9-[2-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]phenyl]- (CA INDEX NAME)

L5 AN DN OREF

ANSWER 32 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 1998:626184 CAPLUS 109:326184 109:3226184 109:327841a, 37344a A comparison of non-radioisotopic hybridization assay methods using fluorescent, chemiluminescent and enzyme labeled synthetic oligodeoxyribonucleotide probes Urdea, Mickey S.; Warner, Brian D.; Running, Joyce A.; Stempien, Michelle; Clyne, Jennifer; Horn, Thomas Chiron Corp. Emeryville, CA, 94608, USA Nucleic Acids Research (1998), 16(11), 4937-56 CODEN: NARHAD; ISSN: 0308-1048 English English

CODEN: NARHAD; ISSN: 0306-1048

JOURNAI
English
M-{N-(6-trifluoroacetylamidocaproyl)-2-aminoethyl]-5'-0-dimethoxytrityl-5methyl-2'-deoxycytidine-3'-N.M-diisopropyl-methylphosphoramidite has been
synthesized. Inis N-alkylamino deoxyvytidine derivative has been
incorporated into oligonucleotide probes during chemical DNA synthesis.
Subsequent to deprotection and purification, fluorescent (fluorescent, Fluorescent), rexas
Red, and rhodamine), chemiluminescent (isoluminol), and enzyme
chorseradish peroxidase, alkaline phosphatase) labels have been specifically
incorporated. Detection limits of the labels and labeled probes were
assessed. Also, the detection limits and nonspecific binding of the
labeled probes in sandwich hybridization assays were determined The
enzyme-modified oligonucleotides were significantly better labeling
materials than the fluorescent or chemiluminescent deriva. providing
saterials than the fluorescent or chemiluminescent deriva. providing
117032-5-5-30. reaction products albeled probes
117047-17-50, reaction products with oligonucleotide
RE. ANST (Analytical study)
(as probe, for nucleic acid hybridization)
117032-5-5-6 CAPLUS
Xanthylium. 3,6-bis (dimethylamino)-9-(3-f(2,5-dioxo-1pyyrolidinyl) carbonyl]phenyl]- (CA INDEX NAME)

117047-17-3 CAPLUS Xanthylium, 3,6-bis(dimethylamino)-9-[2-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]phenyl]- (CA INDEX NAME) RN CN

OREF

F 109:31897a, 31900a
Color-change temmerature indicators
Asano, Makoto: Tsutsumi, Haruki: Hasegawa, Kiyoharu: Tanaka, Eiji:
Akahori, Hiroyuki
Mitsui Toatsu Chemicals, Inc., Japan
JDn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
Patent
Japanese
CNT 1

DT LA FAN.

HIV.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
Ι	JP 63110275	A	19880514	JP 1986-254698	19861028

JP 63110275

A 19860254698

IP 1986-254698

19861028

The title indicators especially useful for the frozen foods comprise a support body (thickness 30-200 µm) coated with (a) an acidic coloring material layer such as 2,5-dicyclohexyl carbonyl-3-benzyl sulfonyl-1,4-benzoquinone (I), (b) a microcapsule layer containing hydrophobic organic comods. for time control, (c) a pigment precursor, and (d) a temperature control membrane made of thermoplastic resins, which preferably can be solidified by irradiation with UV light. The surface of the themoplastic are in layer is preferably printed with desired patterns and then laminated. Thus, a paper was successively coated with 6 g/m2 coloring material containing 3 weight parts I in aqueous dispersion, 2.8 g/m2 emulsion containing acrylonitrile-Bu acrylate-acrylic acid copolymer, 10 g/m2 microcapsule slurry containing melamine resin microcapsules with 2 weight% 3-diethylamino-6-chloro-7-methyl-9-(2-methyl-phenyl-arboxamido) bhenylxanthene dissolved in Me myristate, and then a transparent polyester film (thickness.appxx.10 µm). The coloring indicator stated to change its initial color at 18° in 3 h, and changed completely in 9 h.

MX: ISSS (Uses)

Golor indicator containing, for temperature of frozen foods)

88257-16-0 (APLUS

Benzamide, 2-[3-chloro-6-(diethylamino)-2-methyl-9H-xanthen-9-y1]-N-methyl-N-phenyl- (CA INDEX NAME)

PI JP 63015787 PRAI JP 1986-158708 Α

19880122 19860708

APPLICATION NO. JP 1986-158708

DATE 19860708

Thetitle recording materials contain (11) a colorless or pale-colored lactone compound dye precursor, (2) a methine compound of the formula (CHRRI) n² [n = 1, 2; R, R], Z = Bz, naphthalene, aromatic heterocyclic ring, having substituents selected from alkyl, alkylene, cycloalkyl, halo, alkoxy, (substituted) amino if R, R1, Z = Bz, naphthalene, the compound has 21 (substituted) amino groups; Z = Bz when n = 2], (3) a phonolic compound, and (4) a benzoquinone derivative of the formula I (R3, R4, R5, R6 = H, halo, carboalkoxy, avyl, substituted sulfonyl). The material shows excellent color-formation capability, lightfastness, solvent—and moisture-resistance, and shelf-life. Thus, paper was coated with an aqueous composition containing 3-diethylamino-6-methyl-7-anilinofluoran, II, benzyl phydroxybenzoate, 2, 5-dibenzoyl-1, 4-quinone to give a high-quality thermal recording sheet.

98257-11-5 (APLIDS)
(dye precursor, thermal printing material using)

98257-11-5 (APLIDS)
Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME)

L5 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1988:70907 CAPLUS
DN 108:70907 CAPLUS
DISSIPATION OF STREET CAPLUS
HIGH STATE OF STREET CAPLUS
HIGH STATE OF STREET CAPLUS
DN 108:70907 CAPLUS
DN 108:7

Biochemistry (1988), 27(3), 991-6
CODEN: BICHAW: ISSN: 0006-2960
Journal
English
Spinach calmodulin (CaM) was labeled at cysteine-26 with the SH
group-selective probe, 2-(4-maleimidoanilino)naphthalene-6-sulfonic acid
(MIANS) to produce MIANS-CaM. The interaction of MIANS-CAM with CaM
binding proteins was studied by fluorescence enhancement accompanying the
protein-protein interactions. MIANS-CaM bound to smooth muscle myosin
light-chain kinase with a dissociation constant (Wd) of 9 mM, causing a 4.6-fold
fluorescence enhancement. Calcismeurin (CaM) bound to MIANS-CAM
with Rd of 6Km, causing an 80% increase in fluorescence. On the other
hand, the binding of the CaM entacquist drugs, premylamine and
hand, the binding of the CaM entacquist drugs, premylamine and not alter
MINS fluorescence. MIANS-CAM activated brain cAM was also labeled with 3
other SH group reagents, 6-acryloyl-2-(dimethylamino)naphthalene,
(2,5-dimethoxy-4-stilbenyl-4-maleimide, and thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimide. CaM
bound to the highly fluorescent thodamine X maleimidel-CaM were used to monitor the
Ca2+ dependence of the interaction between CaM and CaM. Half-maximal
binding occurred at a pCa of 6.7-6.8 in the absence of Mg2+, or at a pCa
of 6.3 in the presence of 3 mM Mg2+. In both cases, the dependence of the
interaction was cooperative with respect to Ca2+ (Hill coeffs. = 1.7-2.0).
The use of these fluorescent CaM derives, should allow accurate monitoring
of CaM interactions with its target proteins and perhaps their
localization within the cell.
ll2247-73-60, calmodulin complexes

KH. BIOL Giological Study)

(fluorescence of and protein interactions with)
ll2247-73-60, calmodulin complexes

Kanthylium

112347-73-6
RC: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with calmodulin of spinach)
112347-73-6 CAPLUS
Anthyllum, 9-[2-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)carbonyl]phenyl]3,6-bis(ethylamino) - (CA INDEX NAME)

L5 ANSWER 34 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

L5 ANSWER 35 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

ANSWER 36 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

AN 1987:S78874 CAPLUS
DN 107:178874
OREF 107:28695a, 28698a
II Fail-safe temperature indicators
II Haseqwae, Kyoharui Tsutsumi, Haruki; Tanaka, Eiji; Akahori, Hiroyuki; Asano, Makoto
PA Mitsui Toatsu Chemicals, Inc., Japan
SO Jon. Kokai Tokkyo Koho, 9 pp.
CODEN: MXXAF
DT Patent
LA Japanese
FAN.CNI 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

POSCIBLE STATES A 19870527 JP 1985-255121 19851115

BA 1980-255121 1985-115

BA 1980-255121 19851115

BA 1 fails fet emperature infoscinis a printed label irreversibly coloring on the strength of the

(pigment precursors, for microencapsulated coloring temperature indicators) 98257-16-0 CAPLUS

SMEEDT-11-0-U CAPILID Benzamide, 2-[3-chloro-6-(diethylamino)-2-methyl-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME)

TI IN PA SO DT LA	ANSWER 37 OF 43 CA 1986:610416 CAPLUS 105:210416 105:23937a, 39340a Rhodamine dyes Mayer, Udo: Oberlin BASF AG. , Fed. R Ger. Offen, 12 pp. CODEN: GWXXBX Patent German CNT 1	ner, And		8 ACS on STN	
	PATENT NO.	KIND I	DATE	APPLICATION NO.	DATE
ΡI	DE 3425631 EP 167998 EP 167998 EP 167998 R: CH, DE, FR,	A2 A3 B1	19860115 19880210 19901010	DE 1984-3425631 EP 1985-108323	
PRAI	US 4647675	A A	19870303	US 1985-753783 JP 1985-152602	19850711 19850712

$$\begin{array}{c} R^1 \\ R^2 \\ R^3 \\ \end{array}$$

Rhodamine compds. I [A = anion; n = 0.3; R, R1, R4 = H, (un) substituted alky1, cycloalky1; R2 = H, (un) substituted alky1, cycloalky1, ary1, or NRIR2 = heterocyclic ring; R8 = H, C1-4 alky1; R5 = (un) substituted alky1, cycloalky1, H, ary1, heteroary1, or NRARS = heterocyclic ring; X = H, C1, Br, C1-4 alky1, C1-4 alkoxy, NO2] are useful for dyeing paper materials. Thus, Rhodamine 575 was amidated with PhCENN12 with the aid of POC13, and treated with AcOH, forming I (A = AcO, n = 0, R = R1 = Et, R2 = R4 = X = H, R3 = ME, R5 = CH2P1).

105202-24-8P 105209-25-9P
RE: IMF (Industrial manufacture); TEM (Technical or engineered material use): PREP (Preparation): USES (Uses) (manufacture of, as dye for paper)

105202-24-8 CAPLUS
Benzamide, 2-[6-[ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl]-N,N-dimethyl- (CA INDEX NAME)

L5 ANSWER 36 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

L5 ANSWER 37 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

105292-25-9 CAPLUS Benzamide, N,N-diethy1-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethy1-3H-xanthen-9-y1]- (CA INDEX NAME)

AN 1986:503254 CAPLUS COPYRIGHT 2008 ACS on STN 105:103254 CAPLUS 105:10625a, 16628a TI Dre sensitization of tin dioxide and --1'.

1986.002504
108:16625a, 16628a
109: sensitiaation of tin dioxide and gold electrodes chemically modified with Langmuir-Blodgett films of surfactant derivatives of Rhodamine B and ruthenium bipyridine Ru(I) (byp)32* complexes Pujihira, M.; Aoki, K.; Inoue, S.; Takemura, H.; Muraki, H.; Aoyagui, S.
109. Chem. Eng., 10kyo lnst. Technol., Tokyo, 152, Japan
101. Third Solid Films (1985), 132, 221-8
1020EN; HERPA; ISSN: 0004-6090
1000THA1
101. The Solid Films (1985), 132, 221-8
101. There is substituted by the Solid Films (1985), 132, 221-8
101. There is substituted by the Solid Films (1985), 132, 231-8
101. There is substituted by the Solid Films (1985), 132, 231-8
101. The substitute Solid Films (1985) and of optically swittenaparent vapor-denosited-Au film electrodes on quarta (Au OTEs) were coated with (1) a Langmuir-Blodgett (1985) in the film with arachidic acid or its Cd or Ca salt, or (3) a dye surfactant IB film with a spacer of arachidic acid or its salt. The thickness of the spacer was controlled by the number of arachidic monolayers. The photoelectrochem characteristics and some bysicochem properties, i.e. UP-visible absorption and emission spectra, of the LB-film-modified Sn00 OTEs and Au OTEs are discussed mainly in terms of the distance between the electrode surface and the excited dye moiety.

(adsorbed film of, on optically transparent electrodes, photoelectrochem, properties in relation to)

(10941-64-6 CAPLUS

Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dioctadecylamino)carbonyl]phenyl]-chloride (1:1) (CA INDEX NAME) IT

L5 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

IT

98257-15-9
RE: INES (Uses)
(color former, for pressure-sensitive recording materials, manufacture of)
98257-15-9
CAPUNS
Benzamide, 2-[2-[(2-chlorophenyl) amino]-6-(dibutylamino)-9H-xanthen-9-y1]N-methyl-N-phenyl(CA INDEX NAME)

98257-16-0 RL: USES (Uses) (color formers, for thermal recording materials, manufacture of) 98257-16-0 CAPLUS Benzamide, 2-[3-chloro-6-(diethylamino)-2-methyl-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME)

98257-03-5P 98257-04-6P 98257-05-7P 98257-06-8P 98257-06-8P 98257-06-0P 98257-09-IP 98257-10-4P 98257-11-5P 98257-13-7P 98257-14-8P 98257-13-7P 98257-

ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN 1985:525012 CAPLUS 103:125012 103:20007a, 20010a L5 AN DN OREF

UNEF 103:20007a, 20010a
II Xanthene compounds
A Horizon Compounds
SO Jon Kokai Tokkyo Kohe, 6 pp.
COORN: JKXXAF
DT Patent
L Japanese
FAN.CNT 1
PATTRITY DE PATENT NO. KIND DATE APPLICATION NO. DATE 19850328 19920917 TP 1983-161891 19830905

PI JP 60054381 JP 04058475 PRAI JP 1983-161891 GI 19830905

R10 .COR

Xanthene compds. I [R = NRSR4; Rl-R4 = alkyl (or R1R2 and/or R3R4 = alkylene), cycloalkyl, aryl, haloaryl, alkaryl; R5-R10 = H, alkyl, alkoxy, NEZ, alkylamino, halo; adjacent R may represent a fused ring) are prepared and used as color formers in recording materials. Thus, 6-chloro-3-diethylamino)-7'-methylfiuoran [21121-64-2] was reduced (Ch/HCI) with ring opening to I (R = GH; R1 = R2 = Et; R8 = Cl; R9 = Mc; R5 = R6 = R7 = R10 = H) [98287-17-1], which was then amidated with PhNHME [100-61-8] to give I (R = NMeFh; R1 = RZ = Et; R8 = Cl; R9 = Mc; R5 = R6 = R7 = R10 = H) [II] [98287-16-0]. Heat-sensitive recording paper prepared using II gave red images which showed no loss of intensity on contact with oils, fats, and plasticizers.

98287-12-6 (AFLUS)
(color former, for light-sensitive recording materials, manufacture of) 98287-12-6 (-Gleicthylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-ethyl-N-phenyl- (CA INDEX NAME) AB

L5 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

98257-04-6 CAPLUS Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-yl]-N,N-bis(phenylmethyl)-(CA NDEX NAME)

Ph-CH2 Ph-CH2 Et₂N

98257-05-7 CAPLUS Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-y1]-N-methyl-N-phenyl-(CA INDEX NAME)

98257-06-8 CAPLUS Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-y1]-N,N-diphenyl- (CA

RN 98257-07-9 CAPLUS

ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Benzamide, 2-[9-(diethylamino)-12H-benzo[a]xanthen-12-y1]-N,N-diethyl-(CA INDEX NAME)

98257-08-0 CAPLUS Benzamide, 2-[3-chloro-6-(diethylamino)-2-methyl-9H-xanthen-9-yl]-N, N-diphenyl- (CA INDEX NAME) RN CN

98257-09-1 CAPLUS Benzamide, 2-[3-chloro-6-(diethylamino)-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME)

98257-10-4 CAPLUS Benzamide, 2-[2-[bis(phenylmethyl)amino]-6-(diethylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME)

L5 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L5 ANSWER 39 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN

98257-11-5 CAPLUS Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME) RN CN

98257-13-7 CAPLUS Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-(4-methylphenyl)- (CA INDEX NAME) RN CN

98257-14-8 CAPLUS Benzamide, 2-[6-(cyclohexylmethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME) RN CN

L5 ANSWER 40 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN AN 1982:172117 CAPLUS N 96:172117 ORBEP 96:282003a, 282006a
T1 Xanthene compounds and photographic products IN Cincotta, Louis: Foley, James W. PA Polaroid Corp., USA SO U.S., 16 pp. CODEN: USXAM DT Patent LA English FAN.ON 2 PATENT NO. KIND DATE APPLICATION PATENT NO. PATENT NO. KIND DATE APPLICATION PATENT NO. PATENT NO. RESIDENT NO. PATENT NO. PATENT

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	US 4316950	A	19820223	US 1979-106902	19791226
	US 4290955	A	19810922	US 1980-154620	19800530
PRAI	US 1979-106902	A3	19791226		
GT					

Xanthene dyes which can be used as filter dyes in diffusion-transfer or conventional photos, and irreversibly decolorized by an alkaline processing composition are presented by the formula I (R = H, alkyl; Rl, R2 = alkyl, phenyl; Z = electron withdrawing group; A = anion). Thus, a poly(ethylene terephthalate) support was coated with a polymeric layer containing partial Bu ester of poly(ethylene-maleic anhydride) 9 and poly(vinyl butyral) 1 part coated at coverage 2500 mg/ft2, a timing layer containing 14:1 ratio of Bu acrylate-diacetone methacrylic acid-styrene polymer and poly(vinyl alc.) at coverage 500 mg/ft2, a layer containing a graft copolymer of 4-vinylbyridine and vinylbenyltimethylamonium chloride grafted on hydroxyethylcellulose and I (R, R1 = Bt; R2 = Me, Z = 502Me; A = I-) coated at coverage 300 mg/ft2 to provide an image-teceiving component. When IN MaOH solution was applied to the image-teceiving component the dye I was rendered colorless and remained colorless for 36

ΙT

h. S06342-09-2
RL: PROC (Process)
(as photog. filter dye, preparation of)
80342-09-2 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[methyl[[2-(methylsuffonyl)ethoxy]carbonyl]phenyl]-, iodide (1:1) (CA INDEX NAME)

• I-

80318-91-8
RE: UEES (Uses)
(in preparation of photog. filter dye)
80318-91-8 CAPLUS
Carbamic acid, [2-[3,6-bis(diethylamino)-9H-xanthen-9-yl]benzoyl]methyl-,
2-(methylsuifonyl)ethyl ester (9Cl) (CA INDEX NAME)

L5 ANSWER 41 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• I-

80318-91-8P
RL: NMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and oxidation of)
80318-91-8 CAPILIS
Carbamic acid, [2-[3,6-bis(diethylamino)-9H-xanthen-9-y1]benzoy1]methyl-, 2-umethylsulfonyl)ethyl ester (9C1) (CA INDEX NAME)

ANSWER 41 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1982:53846 CAPLUS
DN 96:58846 ORDER
OREF 96:8579a,8882a
II 3,6-Di(alkyl/phenyl)amino-9-carboxamidophenylxanthenes
IN Cincotta, Louis: Foley, James W.
PA Polaroid Corp., USA
SU U.S., 13 pp. Division of U.S. Ser. No. 106,902.
CODEN: USXXAM
DT Patent
LA English
FAN. CNT 2
PATENT NO. KIND DATE APPLICATION NO. DATE PI US 4290955 US 4316950 PRAI US 1979-106902 GI A A A3 19810922 19820223 19791226 US 1980-154620 US 1979-106902 19800530 19791226

L5 ANSWER 42 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN AN 1976:106994 CAPLUS DN 84:106994 OREF 84:17435a,17438a OREP 84:1/4350a_1/4350a
TI Coloration process
IN Hughes, Nigel; Leng, John L.
PA Imperial Chemical Industries Ltd., UK
SO Brit., 10 pp.
CODEN: BRXXAA
DT Patent
LA English
FAN.CNI_

NT 1 PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PI GB 1409493 A 19751008 GB 1973-2039 19740111

For diagram(s), see printed CA Issue.

B Three fluoran dyes, e.g., fluoran dye (I) [58465-61-5], dyed polyacrylonitrile fibers bright blue to green shades with good fatness to heat treatment, light, and washing. Thus, to polyacrylonitrile fibers 100, H20 3000, and I 1 weight part at 60° was added 1 weight part NaOAc and 0.6 weight nart AcOH, the temperature was raised to 100°, and the mixture kept 90 min at 100° giving a green shade.

II SSS 79-0-6 RU: USES (Uses)

(dyeins of polyacrylonitrile fibers by)

RN 58379-03-6 CAPUS

RN Bthanaminium, N-[7-(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-3H-xanthen-3-ylidene]-N-ethyl-, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CM 2

L5 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1976:91547 CAPLUS
DN 84:91547 OREF 84:19951a, 14954a
TI Coloration process
IN Hughes, Nigel; Leng, John L.
PA Imperial Chemical Industries Ltd., UK
SD Brit., 10 pp.
CODEN: BEXXAA
DT Patent
LA English
FAN.CNI 1
PATENT NO. KIND DATE APPLICATION I CM 1 CRN 58377-88-1 CMF C29 H32 C1 N2 O2

CM 2

CRN 71-50-1 CMF C2 H3 02

58377-91-6 CAPLUS Ethanaminium, N-[7-[2-[(diethylamino)carbonyl]phenyl]-10H-benzo[c]xanthen-10-ylidene]-N-ethyl-, acetate (9CI) (CA INDEX NAME)

11/10/2008

L5 ANSWER 43 OF 43 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CRN 58377-90-5 CMF C32 H33 N2 02

CM 2

CRN 71-50-1 CMF C2 H3 02

10/539, 790 11/10/2008 Page 38

 \Rightarrow d his

(FILE 'HOME' ENTERED AT 09:52:30 ON 06 NOV 2008)

FILE 'REGISTRY' ENTERED AT 09:52:47 ON 06 NOV 2008 STRUCTURE UPLOADED

L1

26 S L1 L2

L3 475 S L1 FULL

132 S L3 AND ED<12/18/2003 L4

FILE 'CAPLUS' ENTERED AT 09:56:32 ON 06 NOV 2008 L5 43 S L4

=> fil reg

FILE 'REGISTRY' ENTERED AT 09:57:48 ON 06 NOV 2008 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

4 NOV 2008 HIGHEST RN 1070859-34-5 4 NOV 2008 HIGHEST RN 1070859-34-5 STRUCTURE FILE UPDATES: DICTIONARY FILE UPDATES:

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> d 14 1-132 ide can

- ANSWER 1 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 608136-19-2 REGISTRY Entered STN: 23 Oct 2008 Xanthylium, 3,6-bis(ethylamino)-2,7-dimethyl-9-[2-(1-pipetazinylarbonyl)phenyl]- (CA INDEX NAME) C30 H35 N4 02 C4 C4 C5N Files: CA, CAPLUS, CASREACT L4 RN ED CN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:293416

- L4 ANSWER 3 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 608136-17-0 REGISTRY D1 Entered STN: 23 Oct 2008 CN Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-(2-iodoacetyl)-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME) CN Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-(iodoacetyl)-1-piperazinyl]carbonyl]phenyl]- (9CI)

 MF C34 H40 I N4 03 CSR CA LC STN Files: CA, CAPLUS, CASREACT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:293416

L4 ANSWER 2 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 608186-18-1 REGISTRY
ED Entered STN: 23 Oct 2003
CN Xanthylium, 9-[2-[4-[2-(acetylthio)acetyl]-1-piperazinyl]carbonyl]phenyl]Stanthylium, 9-[2-[4-[(acetylthio)acetyl]-1-piperazinyl]carbonyl]phenyl]Xanthylium, 9-[2-[4-((acetylthio)acetyl]-1-piperazinyl]carbonyl]phenyl]Xa-6-bis (diethylamino) - (9CI)

FO C36 H43 N4 O4 S

RC CA
LC STN Files: CA, CAPLUS, CASREACT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:293416

- L4 ANSWER 4 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 608136-16-9 REGISTRY DESCRIPTION OF REGISTRY SINCE A CONTROL OF REGISTRY COPYRIGHT 2008 ACS on STN 608136-16-9 REGISTRY 23 Oct 2003 CN Xanthylium, 9-[2-[(4-(2-chloroacetyl)-1-piperazinyl]carbonyl]phenyl]-3,6-000 DTHER CA INDEX NAMES CN Xanthylium, 9-[2-[(4-(chloroacetyl)-1-piperazinyl]carbonyl]phenyl]-3,6-000 MF C34 H40 Cl N4 03 SR CA CSTR CA CAPLUS, CASREACT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:293416

L4 RN ED CN

ANSWER 5 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 608136-15-8 REGISTRY Entered STN: 23 Oct 2008 Kanthylium, 3,6-bis (diethylamino) -9-[2-[[4-[3-[[([chenylmethyl)amino]carbonyl]oxy]propyl]-1-piperazinyl]carbonyl]phenyl]-(CA INDEX NAME) C43 HE2 N5 O4 CA STN Files: CA, CAPLUS, CASREACT

MF SR LC

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 139:293416

L4 RN ED CN

ANSWER 7 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 608136-13-6 REGISTRY 2003 Entered STN: 23 Oct 2003 Kanthylium, 3,6-bis (diethylamino)-9-[2-[[4-(3-hydroxypropyl)-1-niperazinyl]carbonyl]phenyl]- (CA INDEX NAME) COM CA STN Files: CA, CAPLUS, CASREACT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 142:130054 REFERENCE 2: 139:293416

ANSWER 6 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
608136-14-7 REGISTRY
Entered SIN: 23 Oct 2003
Xanthyllum, 3,6-bis (diethylamino)-9-[2-[[4-[3-[[[(2,5-dioxo-1pvrtolidinyl)oxy]carbonyl]oxy]propyl]-1-piperazinyl]carbonyl]phenyl]10EX NAME)
C40 H48 N5 07
CA
SIN Files: CA, CAPLUS, CASREACT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 148:215457 REFERENCE 2: 139:293416

L4 RN ED CN

ANSWER 8 OF 152 REGISTRY COPYRIGHT 2008 ACS on STN 608136-12-5 REGISTRY Entered STN: 23 Oct 2008 Xanthylium, 9-[2-[[4-(3-carboxy-1-oxopropy])-1-piperazinyl]carbonyl]phenyl]-3, 6-bis(diethylamino)- (CA INDEX NAME) CAS H43 N4 OS CSTN Files: CA, CAPLUS, CASREACT, USPATFULL

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:318641

REFERENCE 2: 139:293416

ANSWER 9 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 608136-11-4 REGISTRY Entered STN: 23 Oct 2003 Xanthylium, 3,6-bis(diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-(CA INDEX NAME) CS2 H39 N4 02 COM L4 RN ED CN

CA STN Files: CA, CAPLUS, CASREACT, USPATFULL

6 REFERENCES IN FILE CA (1907 TO DATE) 1 REPERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 147:271848 REFERENCE 2: 147:229266 REFERENCE 3: 146:318641 REFERENCE 4: 146:138111 REFERENCE 5: 142:388589 REFERENCE 6: 139:293416

ANSWER 11 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 507463-56-1 REGISTRY Entered STN: 30 Apr 2003 Benzoic acid, 2-(6-amino-3-imino-3H-xanthen-9-yl)-4-[[4-[4-[3-[(3-pyridinylcatbonyl)amino]-HH-pyrrolo[2,3-b]pyridin-5-yl]phenyl]methyl]-1-piperazinyl]carbonyl] — (CA INDEX NAME) C45 H36 N8 O5 CA STN Files: CA, CAPLUS, TOXCENTER

PAGE 1-B

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:304265

ANSWER 10 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 507463-57-2 REGISTRY Entered STN: 30 Apr 2003 Benzoic acid, 2-(6-amino-3-imino-3H-xanthen-9-yl)-5-[[4-[[4-[3-[(3-pyridinylcarbonyl)amino]-1H-pyrrolo[2,3-b]pyridin-5-yl]phenyl]methyl]-1-piperazinyl[arbonyl]- (CA INDEX NAME) C45 H36 N8 05

CA STN Files: CA, CAPLUS, TOXCENTER SR LC

PAGE 1-A

PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:304265

ANSWER 12 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN
479068-70-7 REGISTRY
Entered STN: 15 Jan 2003
L-Argininande, N-(2-amino-2-oxoethyl)-N-[3-[3,6-bis (dimethylamino)xanthylium-9-yl]-4-carboxybenzoyl]glycyl-N-[1(aminocarbonyl)-4-[(amino iminomethyl) amino]butvl]glycyl-N-[5-amino-1(aminocarbonyl)-4-[(amino iminomethyl) amino]butvl]glycyl-N-[1(aminocarbonyl)-4-[(amino iminomethyl) amino]butvl]glycyl-N-[4-amino-1(aminocarbonyl)-4-[(amino iminomethyl) amino]butvl]glycyl-N-[4-amino-1(aminomethyl) amino]butvl]glycyl-N-[1-(aminocarbonyl)-4((amino iminomethyl) amino]butvl]glycyl-N-[1-(aminocarbonyl)-4((aminomethyl) amino]butvl]glycyl-N-[1-(aminocarbonyl)-4((aminomethyl) amino]butvl]glycyl-N-[1-(aminocarbonyl)-4((aminomethyl) amino]butvl]glycyl-N-[2-amino-2-oxoethyl)-, inner salt
PROFIENT SEGMENAB
CIOO HH60 N44 025
CA
STN FILES: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

PAGE 1-A

L4 ANSWER 12 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 2-B NH

ANSWER 13 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 446262-93-7 REGISTRY Sep 2002 Entered STN: 04 Sep 2002 Kanthylium, 9-[4-[[4-[[[bis(1-methylethyl)amino](2-cvanoethoxy)bhosphino]oxy]-1-piperidinyl]carbonyl]-2-carboxyphenyl]-3,6-bis(dimethylamino)-, inner salt (CA INDEX NAME) C39 H48 N5 06 P CA STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 137:164288

L4 ANSWER 12 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

0 || C-NH2 R-CH-(CH₂)₃-NH-C-NH₂

$$\begin{array}{c} {\bf 0} \\ {\bf ||} \\ {\bf -NH_2} \\ {\bf R2-CH-(CH_2)_3-NH-C-NH_2} \end{array}$$

PAGE 4-A

PAGE 3-A

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:49450

ANSWER 14 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN
4SES04-73-7 REGISTRY
Entered STN: 01 Jul 2002
Kanthyllum, 3,6-bis (diethylamino)-9-[2-[[[2-[4-[(2,5-dioxo-1pyrrolidinyl)oxy]-1,4-dioxobutoxy]ethyl]methylamino]carbonyl]phenyl]- (CA
INDEX NAME)
C39 H45 N4 08
CA
STN Files: CA, CAPLUS, USPATFULL

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:39726 REFERENCE 2: 137:17446 L4 RN ED CN

ANSWER 15 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 438304-72-6 REGISTRY Entered STN: 01 Jul 2002
Kanthyllum, 3, 6-bis (dimethylamino)-9-[2-[[[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]methylamino]carbonyl]phenyl]- (CA INDEX NAME)
C33 H35 N4 O6
CA
STN Files: CA, CAPLUS, USPATFULL

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:39726 REFERENCE 2: 137:17446

ANSWER 17 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 435304-69-1 REGISTRY Britered STN: 01 Jul 2002 Xanthylium, 9-[2-[6-[bis(1-methylethyl) amino]-9-cyano-2-methyl-1-oxo-5, 7-dioxa-2-aza-6-phosphanon-1-yl]phenyl]-3, 6-bis(dimethylamino)- (9CI) (CA INDEX NAME) C36 H47 N5 04 P CA STN Files: CA, CAPLUS, USPATFULL L4 RN ED CN

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:39726 REFERENCE 2: 137:17446

ANSWER 16 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
435904-70-4 REGISTRY
Entered STN: 01 Jul 2002
Entered STN: 04 PC
GA
STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

$$\label{eq:nc-ch2-ch2-operator} \begin{array}{c} \text{NC-Ch2-Ch2-O-P-o-Ch2-Ch2-N-operator} \\ \text{NC-Ch2-Ch2-O-P-o-Ch2-Ch2-N-operator} \\ \text{Et2N} \\ \end{array}$$

4 REFERENCES IN FILE CA (1907 TO DATE) 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040 REFERENCE 2: 143:169183 REFERENCE 3: 141:39726 REFERENCE 4: 137:17446

L4 RN ED CN

ANSWER 18 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 435304-67-9 REGISTRY Entered STN: 01 Jul 2002 Acathylium, 3,6-bis (diethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME) COM COM CA STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

4 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 149:334040 REFERENCE 2: 146:212209 REFERENCE 3: 141:39726 REFERENCE 4: 137:17446

L4 RN ED CN

ANSWER 19 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 438504-66-8 REGISTRY Entreed STN: O1 Jul 2002 Xanthylium, 3,6-bis(dimethylamino)-9-[2-[[(2-hydroxyethyl)methylamino]carbonyl]phenyl]- (CA INDEX NAME) C27 H30 N3 03 CASTN Files: CA, CAPLUS, USPATFULL

MF SR LC

3 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 141:39726 REFERENCE 3: 137:17446

L4 RN ED CN

ANSWER 21 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 361175-98-6. REGISTRY Entered STN: 09 Oct 2001 Benzamide, N-ethyl-2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl-1]-N-methyl- (CA INDEX NAME) C39 H33 N3 O2 C STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:261999

L4 ANSWER 20 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 375798-12-2 REGISTRY

ED Entered STN: 17 Dec 2001

N Xanthylium, 9-[2-[14-[[(2,5-dioxo-1-pyrrolidiny1) oxy]carbony1]-1-piperidiny1]carbony1]pheny1]-3, 6-bis(phenylamino)-, chloride (1:1)

OTHER CA INDEX NAMES:

N Xanthylium, 9-[2-[14-[[(2,5-dioxo-1-pyrrolidiny1) oxy]carbony1]-1-piperidiny1[carbony1]pheny1]-3, 6-bis(phenylamino)-, chloride (9CI)

MF C42 H55 N4 O6 C

SR CA

CA

CT NI Files: CA, CAPLUS, USPATFULL

CRN (774174-31-1)

● C1=

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:1576

ANSWER 22 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

8N 342889-89-8 REGISTRY

ED Entered STN: 22 Jun 2001

Nanthylium, 9-[2-[[[2-(cyclohexylamino)-2-oxoethyl] [5-[[5-[(3aS, 4S, 6aR)-hexahydro-2-oxo-ll-thieno[3, 4-d]imidazol-4-yl]-1-oxoentyl]amino]entyl]amino]earbonyl]phenyl]-3, 6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

ON Nanthylium, 9-[2-[[[2-(cyclohexylamino)-2-oxoethyl] [5-[[5-[(3aS, 4S, 6aR)-hexahydro-2-oxo-ll-thieno[3, 4-d]imidazol-4-yl]-1-oxoentyl]amino]entyl]amino]carbonyl]phenyl]-3, 6-bis(diethylamino)-, chloride (9CI)

FS STEREOSEARCH

F CS1 H70 N7 05 S CI

SR CA

CRN (734525-20-3)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

• c1 -

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:16371

- L4 RN ED CN
- ANSWER 23 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 340154-97-4 REGISTRY Entered STN: 08 Jun 2001 Kanthylium, 9,9 -[[3-(dimethylamino)propyl]imino]bis(carbonyl-2,1-phenylene)]bis[3,6-bis(ethylamino)-2,7-dimethyl-, diacetate (9CI) (CA INDEX NAME) C57 H64 N6 04 . 2 C2 H3 02 COM CA
- - CM 1
 - CRN 339570-30-8 CMF C57 H64 N6 04

- CM 2
- CRN 71-50-1 CMF C2 H3 02

- L4 RN ED CN
- ANSWER 25 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 304014-27-5 REGISTRY Entered STN: 22 Nov 2000 Benzamide, N-(6-hydroxyhexyl)-N-methyl-2-[6-(phenylamino)-3-(phenylimino)-C39 H37 N3 09 (CA INDEX NAME) C39 H37 N3 09 (STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 133:336549

- ANSWER 24 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 339570-30-8 REGISTRY Entered STN: 06 Jun 2001 Xanthylium, 9,9°-[[[3-dimethylamino]propyl]imino]bis(carbonyl-2, 1-phenylen)lbis[3,6-bis(ethylamino)-2,7-dimethyl- (9CI) (CA INDEX NAME) COM CA L4 RN ED CN

PAGE 1-A

PAGE 2-A

- L4 ANSWER 26 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 204014-14-0 REGISTRY
 ED Entered STN: 22 New 2000
 Controlled Structure (1-1) (CA INDEX NAME)

 OTHER CA INDEX NAMES:
 CN Xanthylium, 9-[2-(4-(ethoxycarbonyl)-1-piperidinyl]carbonyl]phenyl]-3, 6-bis (phenylamino)-, chloride (9CI)
 MF C40 H66 NS 04 . C1
 SR CA
 CC STN Files: CA, CAPLUS, USPATFULL
 CRN (790647-95-9)

• c1-

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 136:1576 REFERENCE 2: 133:336549

ANSWER 27 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 249742-41-4 REGISTRY Entered STN: 02 Dec 1999
Xanthylium, 9-[2-[[bis(cyanomethyl)amino]carbonyl]phenyl]-3,6-bis(methylphenylamino)- (CA INDÉX NAME)
C38 H30 N5 02
CA STN Files: CA, CAPLUS

2 REFERENCES IN FILE CA (1907 TO DATE) 1 REPERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 131:344185

L4 ANSWER 28 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

202603-88-1 REGISTRY
ED Entered SIN: 12 Mar 1998
Entered SIN: 12 Mar 1998

Nanthylium, 3,6-bis (diethylamino) -9-[2-[(diethylamino)carbonyl]-5-[[21-methyl-1], 8, 20-triox0-2-([[[5, 1], 17, 29-tertakis(1, 1-dimethyl-thyl)-26, 27, 28-tris(2-cethoxy-2-oxechoxy)pentacylo[19, 3, 11, 3, 7, 19, 11, 15, 19] octacosa-1(25), 3, 5, 7 (28), 9, 11, 13 (27), 15, 17, 19(26), 21, 23-dodecaen-25-ylloxylacetyl]aminol-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yllaminolphenyl-, chloride, (S)- (9CI) (CA INDEX NAME)

STERBOSEARCH

FC C108 H146 NT 019 . C1

CRN (737740-84-0)

Absolute stereochemistry.

PAGE 1-A

L4 ANSWER 28 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 2-A

L4 ANSWER 28 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 3-A

PAGE 2-B

PAGE 3-B

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 29 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN

202603-87-0 REGISTRY
ED Entered STN: 12 Mar 1998

Nanthylium, 3,6-bis (diethylamino) -9-[2-[(diethylamino)carbonyl]-4-[[21-methyl-1],8,20-triox0-2-[[[[5,11],17,23-tetrakis(1,1-dimethyl-thyl)-26,27,28-tris(2-chtoxy-2-oxetboxy)pentacylo[19,3,11,3,7,19,11,18,19]octacosa-1(25),3,5,7 (28),9,11,13 (27),15,17,19(26),21,23-dodecaen-25-yloxylacetyl]aminol-10,13,16-trioxa-7,19-diazadocos-21-en-1-yllaminolphenyl-, chloride, (S)- (9CI) (CA INDEX NAME)

STERBOSEARCH
FC C108 H146 NT 019 . C1

CRN (766490-78-2)

Absolute stereochemistry.

PAGE 1-A

PAGE 2-B

$$\begin{array}{c|c} \operatorname{Et}_{2N} & \operatorname{O}^{+} & \operatorname{NEt}_{2} \\ & & & & \\ \operatorname{Et}_{2N} & & & & \\ \operatorname{H}_{N} & & & & \\ \operatorname{H}_{N} & & & & \\ \operatorname{H}_{0} & & & & \\ \end{array}$$

L4 ANSWER 29 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 29 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 2-A

ANSWER 30 OF 182 REGISTRY COPYRIGHT 2008 ACS on STN 202603-86-9 REGISTRY Entered SIN: 12 Mar 1998 Entered SIN: 12 Mar 1998 Acathylium, 9-[5-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl)amino]-2-[(diethylamino) carbonyl]phenyl]-3, 6-bis(diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1), mono(trifluoroacetate) (9:1) (CA INDEX NAME) STERBOSEARCH C50 H72 N7 08 . C2 H F3 02 . C2 F5 02 CA SIN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 76-05-1 CMF C2 H F3 02

CM 2

CRN 202603-85-8 CMF C50 H72 N7 08 . C2 F3 02

CM 3

Absolute stereochemistry.

L4 ANSWER 30 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

CRN 14477-72-6 CMF C2 F3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 31 OF 182 REGISTRY COPYRIGHT 2008 ACS on STN
RN 202603-85-8 REGISTRY 1998
ED Entered STN: 12 Mar 1998
N XANTHYLIUM, 9-[6-[(28)-2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-methyl-1-1, 19-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-methyl-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1) (9CI)
MF C50 H72 N7 O8 . C2 F3 O2
CA

CM 1

CRN 202603-84-7 CMF C50 H72 N7 08

Absolute stereochemistry.

PAGE 1-B

CM 2

CRN 14477-72-6 CMF C2 F3 O2

L4 ANSWER 31 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 32 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 202600-54-7 REGISTRY
ED Entered STN: 12 Mar 1908

CN Xanthylium, 9-[5-[(2S)-2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl] amino]-2-[(diethylamino) carbonyl]phenyl]-3, 6-bis (diethylamino) - (CA INDEX NAME)

CN Xanthylium, 9-[5-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]-2-[(diethylamino) carbonyl]phenyl]-3, 6-bis (diethylamino)-, (S)- (9CI)

FS STEREOSTANCH

FG C50 H72 N7 08

CA

CA

Absolute stereochemistry.

ANSWER 33 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 202603-88-6 REGISTRY 1998 Entered STN: 12 Mar 1998 Kanthylium, 9-[4-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-[-yl] aminol-2-[(diethylamino) carbonyl] bhenyl]-3, 6-bis(diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1), mono(trifluoroacetate) (9CI) (CA INDEX NAME) STERBOCEARCH C50 H72 NV 09 . C2 H F3 02 . C2 F3 02 . CA STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 76-05-1 CMF C2 H F3 02

CM 2

CRN 202603-82-5 CMF C50 H72 N7 08 . C2 F3 02

CM 3

CRN 202603-81-4 CMF C50 H72 N7 08

Absolute stereochemistry.

L4 ANSWER 34 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202003-82-5 REGISTRY 1998 CN Xanthylium, 9-[4-[[(2S)-2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, 2, 2, 2-trifluoroacetate (1:1) (CA RDEX NAME) CN Xanthylium, 9-[4-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1) (9CI) FS STEREGERACH CT COM SR CA

CM 1

CRN 202603-81-4 CMF C50 H72 N7 08

Absolute stereochemistry.

PAGE 1-B

$$\underbrace{ \begin{array}{c} 0 \\ \text{Me} \end{array} }_{\text{CH}_2} \text{Me}$$

CM 2

CRN 14477-72-6 CMF C2 F3 02

L4 ANSWER 33 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

CM 4

CRN 14477-72-6 CMF C2 F3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 34 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

- L4 ANSWER 35 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 202600-81-4 REGISTRY REGISTRY COPYRIGHT 2008 ACS on STN
 202600-81-4 REGISTRY 2098
 CN Xanthylium, 9-[4-[[(2S)-2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]-2-[(diethylamino) carbonyl]phenyl]-3, 6bits (diethylamino) (CA INDEX NAME)
 CN Xanthylium, 9-[4-[(2-amino-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl)amino]-2-[(diethylamino) carbonyl]phenyl]-3, 6bits (diethylamino) (S) (9CI)
 FS TEREOSERACH
 FF C50 H72 N7 O8
 CC CCM

Absolute stereochemistry.

L4 ANSWER 36 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

- L4 ANSWER 36 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

 RN 202603-80-3 REGISTRY
 ED Entered STN: 12 Mar 1998

 CN Xanthylium, 3, 6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[(2S)-2-[(1,1-dimethylethoxy)carbonyl]amino]-2]-methyl-1, 8, 20-trioxo-10, 13, 16-trioxo-7, 19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride (1:1) (CA

 OTHER CA INDEX NAME)

 CN Xanthylium, 3, 6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[2-[(1,1-dimethylethoxy)carbonyl]amino]-2]-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride, (S)- (9CI)

 FS STEREGERACH

 MF C65 H80 N7 010 . C1

- CA STN Files: CA, CAPLUS, USPATFULL (756458-95-4)

Absolute stereochemistry.

PAGE 1-B

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

- ANSWER 37 OF 132 REGISTRY COPYRIGHT 2008 ACS on SIN 200603-79-0 REGISTRY Entered SIN: 12 Mar 1998
 Kanthylium, 3.6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[(2S)-2-[[(1,1-dimethylethoxy)carbonyl]amino]-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride (1:1) (CA INDEX NAMES:
 Kanthylium, 3.6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[2-[(1,1-dimethylethoxy)carbonyl]amino]-21-methyl-1, 8, 20-trioxo-10, 13, 16-trioxa-7, 19-diazadocos-21-en-1-yl]amino]phenyl]-, chloride, (S)- (9CI)
 STERBOCSEANCH
 C55 H80 N7 010 . C1
 CA
 RFiles: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

• c1-

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 38 OF 132 REGISTRY COPYRIGHT 2008 ACS on SIN 202603-78-9 REGISTRY Entered SIN: 12 Mar 1998
Kanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[6-[[12-[(2-rethyl-1-vac-2-bropenyl)amino]-1-oxododecyl]amino]-2[[[6,7,9,10,12,13,15,16-octahydro-29,32-dipropoxy-28H-4,18umethano[1,3]beneenomethano]-23,27-metheno-22Hdibenzo[n, 9,11,4,7,10,13]pentaoxacyclotetracosin-25-yl]carbonyl]amino]-1oxobexyllamino]phenyl]-, (S)-, salt with trifluoroacetic acid (1:1) (9CI)
(CA INDEX NAME)
SIEREOSLANCH
G97 H128 N7 013 . C2 F3 02
CA
SIN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 202603-77-8 CMF C97 H128 N7 013

Absolute stereochemistry.

PAGE 1-A

ANSWER 39 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 200603-77-8 REGISTRY Entered STN: 12 Mar 1998 Xanthylium, 3.6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[6-[[12-[(2-methyl-1-oxo-2-propenyl)amino]-1-oxododecyl]amino]-2-[([6,7,9,10,12,13,16,16-octahydro-29,33-dipropoxy-28H-4,18-(methano[1,3]bensenomethano)-22, 27-metheno-22H-dibenzo[n, 9][1,4,7,10,13]pentaoxacyclotetracosin-25-yl]carbonyl]amino]-1-oxoboxyl]amino]phenyl]-, (S)- (9CI) (CA INDEX NAME) TERRECERAC CG7 H128 N7 013 CCM

FS MF CI SR

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L4 ANSWER 38 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

-NEt2

PAGE 2-A

CM 2

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 39 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

- ANSWER 40 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 202603-76-7 REGISTRY Entered STN: 12 Mar 1998

 Kanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[6-[[12-[(6,7-9.10.12),2.13.15.16-octahylor-29.32-dipronoxy-28H-4,18-unethano].1,3]benzenomethano]-23,27-metheno-22H-dibenzo[n,9],11,4,7,10,13]pentaoxacyclotetracosin-25-y]carbonyl]amino]-i-oxabexyllamino]phenyl]-, (5)-, salt with trifluoroacetic acid (1:1) (9CI) (CA NDEX NAME) STERGOSLANCH (27 H128 N7 013 . C2 F3 02 CA STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 202603-75-6 CMF C97 H128 N7 013

Absolute stereochemistry.

PAGE 1-A

ANSWER 41 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 202603-75-6 REGISTRY 1998 Entered STN: 12 Mar 1998 Entered STN: 12 Mar 1998 (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[6-[[12-[[16-7,9].2].3-diptonoxy-28H-4, 18-([6-7,9].2].3-diptonoxy-28H-4, 18-(methano[1,3]benzenomethano]-32, 27-metheno-22H-dibenzo[n,9]. (diethylamino]-1-0xobexylamino]phenyl]-, (S)- (9CI) (CA INDEX NAME) STRROCESARD-13 (STRROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCESARD-13 (STROCES

FS MF CI SR

Absolute stereochemistry.

PAGE 1-A

L4 ANSWER 40 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

CM 2

CRN 14477-72-6 CMF C2 F3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 42 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 202603-74-5 REGISTRY
ED Entered STN: 12 Mar 1998

CN Xanthylium, 9-[5-[(28)-2-amino-6-[[12-[(2-methyl-1-oxo-2-propen-1-yl)amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-1-oxobexyl]amino]-2-[(diethylamino)-arbonyl]phenyl]-3,6-bis (diethylamino)-x, (S)-, salt with trifluoroacetic acid (1:1) (9CI)

FS STEREOSEACH
FG C54 BSO N7 05 . C2 F3 02

SR CA
STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 202603-73-4 CMF C54 H80 N7 05

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

CM 2

CRN 14477-72-6 CMF C2 F3 02

F-C-C02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

- L4 ANSWER 43 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 200600-73-4 REGISTRY
 ED Entered STN: 12 Mar 1998
 CN Xanthylium, 9-[8-[[2]S]-2-amino-6-[[12-[(2-methyl-1-oxo-2-propen-1-yl) amino]-1-oxodedeyl]amino]-1-oxobexyl]amino]-2-(CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Xanthylium, 9-[5-[[2-amino-6-[[12-[(2-methyl-1-oxo-2-propenyl) amino]-1-oxodedeyl]amino]-1-oxodedeyl]amino]-1-oxodedeyl]amino]-1-oxodeyl]amino]-2-[(diethylamino)carbonyl]phenyl]-3,6-bis (diethylamino)-, (S)- (9CI)
 NF C54 HSO N7 05
 CI COM
 SR CA

Absolute stereochemistry.

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & &$$

L4 RN ED CN

ANSWER 45 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 205603-71-2 REGISTRY Entreed STN: 12 Mar 1998 Entreted STN: 12 Mar 1998 Exarthylium, 9-[4-[(2S)-2-amino-6-[[12-[(2-methyl-1-oxo-2-propen-1-yl) amino]-lo-xoododeval] amino]-lo-(actival amino) carbonyl]phenyl]-3, 6-bis (diethyl amino) - (CA INDEX NAME) R CA INDEX NAMES: Xanthylium, 9-[4-[[2-amino-6-[[12-[(2-methyl-1-oxo-2-propenyl) amino]-1-cxoododeval] amino]-lo-(bis (diethyl amino) -, (S) - (9CI) STERROSEARCH STREMOSEARCH STREMOSE

- COM CA
- FS MF CI SR

Absolute stereochemistry.

$$\begin{array}{c|c} & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & &$$

L4 ANSWER 44 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

NN 202603-72-3 REGISTRY

Entered STN: 12 Mar 1998

N Xanthylium, 9-[4-[(163)-2-amino-6-[[12-[(2-methyl-1-oxo-2-propen-1-yl)amino]-1-oxododecyl] amino]-1-oxohexyl] amino]-2-([diethylamino) carbonyl] phenyl]-3, 6-bis (diethylamino) -, 2, 2, 2-trifluoroacetate (i:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

NN Xanthylium, 9-[4-[[2-amino-6-[[12-[(2-methyl-1-oxo-2-propenyl)amino]-1-oxohexyl] amino]-2-[(diethylamino) carbonyl] phenyl]-3, 6-bis (diethylamino)-, (S)-, salt with trifluoroacetic acid (1:1) (9C1)

FS STEREOSJACH

GC 4 HSO NT 05 . C2 F3 02

CA STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 202603-71-2 CMF C54 H80 N7 05

Absolute stereochemistry.

2 $\mathbb{C}\mathbf{M}$

CRN 14477-72-6 CMF C2 F3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

ANSWER 46 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
202603-70-1 REGISTRY
Entered STN: 12 Mar 1998
Kanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-5-[[(2S)-2-[(1.1-dimethylethoxy)carbonyl]amino]-[-[12-[(2methyl-1-oxo-2-propen-1ylamino]-1-oxododecyl]amino]-1-oxododecyl]amino]-1-oxododecyl]amino]-1-oxododecyl]amino]-1-oxododecyl]amino]-6-[(12-[(diethylamino)carbonyl]-5-[[2-[(1.1-dimethylethoxy)carbonyl]amino]-6-[(12-[(2methyl-1-oxo-2-propenyl)amino]-1-oxododecyl]amino]-1-oxodexyl]amino]phenyl]-, chloride,
(S)- (SCI)
STREOSEARCH
CAS BNS NY 07 C1
CA
STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

● c1=

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 47 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

202603-69-8 REGISTRY
DESTRICTED IN 12 Mar 1998
Entered STN: 12 Mar 1998
CN Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[(2S)-2-[(1,1-dimethylethoxy)carbonyl]amino]-6-[(12-[(2-methyl-1-oxo-2-propen]-y)lamino]-i-oxododecyl]amino]-1-oxohexyl]amino]phenyl]-, chloride (1:1)
OTHER CA INDEX NAMES:
CN Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]-4-[[2-[(1,1-dimethylethoxy)carbonyl]amino]-6-[(12-[(2-methyl-1-oxo-2-propenyl)amino]-1-oxododecyl]amino]-1-oxohexyl]amino]phenyl]-, chloride,
(S)- (GS)- (GS)-

Absolute stereochemistry.

● C1=

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 49 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202603-62-1 REGISTRY ED Entered STN: 12 Max 1908
CN Xanthylium, 9-[4-(azidomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis (diethylamino)-, chloride (1:1) (CA INDEX NAME)
CN Xanthylium, 9-[4-(azidomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis (diethylamino)-, chloride (9CI)
Manthylium, 9-[4-(azidomethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis (diethylamino)-, chloride (9CI)
MF C33 H41 N6 02 . C1
SR CA.
CSN Files: CA, CAPLUS, USPATFULL
CRN (769903-54-0)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:154009

L4 ANSWER 48 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202603-64-3 REGISTRY COPYRIGHT 2008 ACS on STN 202603-64-3 REGISTRY ED Entered STN: 12 Max 1998
CN Xanthylium, 9-[4-(aminomethyl)-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride, hydrochloride (1:1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:

N Xanthylium, 9-[4-(aminomethyl)-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride, monohydrochloride (9CI)
RC C3B 43 N4 02 . C1 H. C1
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
CRN (772321-60-5)

● HC1

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

REFERENCE 2: 128:154009

L4 ANSWER 50 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN N202605-61-0 REGISTRY ED Entered STN: 12 Mar 1998

ENtered STN: 12 Mar 1998

CN Xanthylium, 9-[4-(chloromethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) CA INDEX NAME)

OTHER CA INDEX NAMES.

N Xanthylium, 9-[4-(chloromethyl)-2-[(diethylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (9CI)

MF C33 H41 C1 N3 02 . C1

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CRN (784121-86-4)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 51 OF 152 REGISTRY COPYRIGHT 2008 ACS on STN N202605-59-6 REGISTRY DD Entered STN: 12 Mar 1998

ENtered STN: 12 Mar 1998

CN Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(hydroxymethyl)phenyl]-, chloride (1:1) (CA INDEX NAME):

CN Xanthylium, 3,6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-(hydroxymethyl)phenyl]-, chloride (9CI)

CRN (33 H42 NS 03. CI SR CA CAPLUS, USPATFULL CRN (773831-20-2)

c1 -

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:154009

L4 ANSWER 53 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202605-83-0 REGISTRY ED Entered STN: 12 Max 1998

CN Xanthylium, 9-[5-amino-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

N Xanthylium, 9-[5-amino-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride (9CI)

MF C32 H41 N4 02 C1

SR CA

CC STN Files: CA, CAPLUS, USPATFULL

CRN (765253-12-1)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:154009

L4 ANSWER 52 OF 152 REGISTRY COPYRIGHT 2008 ACS on STN N2 02605-88-5 REGISTRY DE TRANSPORT OF THE PROPERTY OF

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

REFERENCE 2: 128:154009

L4 ANSWER 54 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202605-51-8 REGISTRY ED Entered STN: 12 Max 1998

CN Xanthylium, 9-[4-amino-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:

N Xanthylium, 9-[4-amino-2-[(diethylamino)carbonyl]phenyl]-3, 6-bis (diethylamino)-, chloride (9CI)

MF C32 H41 N4 02 C1

SR CA

CSN Files: CA, CAPLUS, USPATFULL

CRN (782432-13-7)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:154009 L4 ANSWER 55 OF 152 REGISTRY COPYRIGHT 2008 ACS on STN N 200605-50-7 REGISTRY D 200605-50-7 REGISTRY D 5006005-50-7 REGISTRY D 5006005-50-7 REGISTRY D 5006005-50-7 REGISTRY D 5006005-50-6005 REGISTRY D 5006005-5005 REGISTRY R

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:154009

L4 ANSWER 57 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

199744-95-1 REGISTRY
ED Entered STN: 14 Jan 1998

N Xanthylium, 3,6-bis (dibutylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyl]-, bis[2-[[2-(hydroxy-KO)-5-nitrophenyl]azo-XNI]-3-(cA: INDEX NAME)

OTHER CA: INDEX NAME)

OTHER CA: INDEX NAME)

CObaltate (1-), bis[2-[[2-(hydroxy-KO)-5-nitrophenyl]azo-XNI]-3-(cxo-KO)-N-phenylbutnammidato (2-)]-, 3,6-bis (dibutylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyl] xnthylium (9C)

MF C42: H59 N4 04 . C32: H24 Co N8: 010

STR Files: CA, CAPLUS

CM 1

CRN 199744-94-0 CMF C42 H59 N4 04 CCI IDS

$$(n-Pr) 2N - C$$
 $(n-Bu) 2N$
 $0+$
 $N (Bu-n) 2$

D1-NO2

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L4 ANSWER 56 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 202605-49-4 REGISTRY DE THE COPYRIGHT 2008 ACS on STN 202605-49-4 REGISTRY DE THE COPYRIGHT 2008 ACS on STN 202605-49-4 REGISTRY DE THE COPYRIGHT 2008 ACS ON SANTHYLIUM, 3.6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-nitrophenyl]-, chloride (1:1) (CA INDEX NAME) COPYRIGHT 2008 ACS ON Xanthylium, 3.6-bis (diethylamino)-9-[2-[(diethylamino)carbonyl]-4-nitrophenyl]-, chloride (9CI) MF C32 189 N4 04 . CI STR CA CA CAPLUS, USPATFULL CRN (758667-95-7)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:154009

L4 ANSWER 57 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 58 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 199744-94-0 REGISTRY Entered STN: 14 Jan 1998 Kanthylium, 3,6-bis (dibutylamino) -9-[2-[(dipropylamino) carbonyl]-4(or 5)-nitrophenyl]- (CA INDEX NAME) C42 H59 N4 04 LDS, COM CA L4 RN ED CN

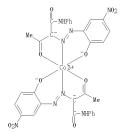
MF CI SR LC

CA STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

L4 ANSWER 59 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)
CRN 51745-75-6
CMF C32 H24 Co N8 010
CC1 CCS



1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 59 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 199744-86-0 REGISTRY

ED Entered STN: 14 Jan 1998

(N Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitropheryl]-, bis[2-[12-(hydroxy-KO)-5-nitropheryl]-zco-XNI]-3-(sox-KO)-heneylbutnamidato(2-)]- cobaltate(1-), compd.

with sodium chloride (NaCl) (1:1) (9Cl) (CA INDEX NAME)

OTHER CA INDEX NAMES:

(N Cobaltate(1-), bis[2-[[2-(hydroxy-KO)-5-nitrophenyl]-zco-XNI]-3-(sox-KO)-N-phenylbutnamidato(2-)]-, 3,6-bis (diethylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitropheryl] stanthylium, compd. with sodium chloride (NaCl) (1:1) (9Cl)

KN Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodium chloride (NaCl), compd. with sodium chloride (NaCl) (1:1) (9Cl)

N Sodiu

CM 1

CRN 7647-14-5 CMF C1 Na

C1-Na

CM 2

CRN 199744-85-9 CMF C34 H43 N4 04 . C32 H24 Co N8 010

CM 3

CRN 199744-84-8 CMF C34 H43 N4 04 CCI IDS

CM 4

L4 ANSWER 60 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN

N 199744-85-9 REGISTRY

ED Entered STN: 14 Jan 1998

N Xanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyl]-, bis[2-[[2-(hydroxy-KO)-5-nitrophenyl]azo-XNI]-3-(oxo-KO)-y-henylbutanamidato(2-)]cobaltate(1-) (9CI)

OTHER CA INDEX NAME)

OTHER CA INDEX NAME)

Cobaltate(1-), bis[2-[[2-(hydroxy-KO)-5-nitrophenyl]azo-KNI]-3-(oxo-KO)-N-phenylbutanamidato(2-)]-, 3,6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]-4 (or 5)-nitrophenyl]xntyljium (9CI)

FF C34 H43 N4 04 . C32 H24 Co N8 010

SR CA

 $\mathbb{C}\mathbf{M}$ 1

CRN 199744-84-8 CMF C34 H43 N4 04 CCI IDS

D1 - N02

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

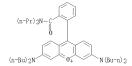
L4 ANSWER 60 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

ANSWER 61 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 199744-84-8 REGISTRY Entered STN: 14 Jan 1998 Kanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]-4(or 5)-nitrophenyl]- (CA INDEX NAME) UDS, COM CA STN Files: CA, CAPLUS L4 RN ED CN

MF CI SR LC

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209



D1 - N02

● c1=

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:41649

ANSWER 63 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 199682-43-4 REGISTRY DEPTH 2008 ACS on STN 2008 Entered STN: 13 Jan 1998

Nanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitrophenyl]-, chloride (1:1) (CA INDEX NAME)

Nanthylium, 3,6-bis (diethylamino)-9-[2-[(dipropylamino)carbonyl]-4(or 5)-nitrophenyl]-, chloride (9CI)

F C34 H43 N4 04 . CI

STR CA

CA CA CAPLUS

CRN (199744-84-8)

D1 - N02

€ C1 =

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:41649

CM 2

CM 1

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 65 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 199606-32-1 REGISTRY Entered STN: 09 Jan 1998 Kanthylium, 3, 6-bis (diethylamino) -9-[2-(1-piperidinylcarbonyl)phenyl]-(CA INDEX MAME) COM CA STN Files: CA, CAPLUS L4 RN ED CN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

L4 ANSWER 64 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN REFERENCE 1: 128:41649

CM 1

 $\mathbb{C}\mathbf{M}$ 2

51745-75-6 C32 H24 Co N8 010 CCS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 66 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

ANSWER 67 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 199606-30-9 REGISTRY Entered STN: 09 Jan 1998
Kanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3,6-bis(diethylamino)-(CA INDEX NAME)
COB H48 N3 02
COM
CA STN Files: CA, CAPLUS L4 RN ED CN

MF CI SR LC

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

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| ANSWER 68 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN | 199606-29-6 REGISTRY | REGISTRY | 2008 ACS on STN | 199606-29-6 REGISTRY | 2008 ACS on STN | 2008 AC
                                                                                 CM 1
                                                                                      CRN 199606-28-5
CMF C32 H40 N3 02
                                                                                 CM 2
                                                                                 CRN 51745-75-6
CMF C32 H24 Co N8 010
CCI CCS
```

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

-NHPh

REFERENCE 1: 128:41649

L4 ANSWER 68 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

ANSWER 69 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 199606-28-6 REGISTRY BILLY REGISTRY STATES OF STR. (2008 ACS on STN 199606-28-6 REGISTRY 1998 ACT OF STR. (2008 ACS on STN 1996 ACS ON STATES) ACT OF STR. (2008 ACS ON STN 1996 ACS ON ST L4 RN ED CN

MF CI SR LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 143:165621

L4 ANSWER 70 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

(Continued)

REFERENCE 1: 128:41649

CM 1

CRN 199606-26-3 CMF C30 H36 N3 02

CM 2

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L4 RN ED CN

ANSWER 71 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 199606-26-3 REGISTRY Entered STN: 09 Jan 1998 Kanthylium, 3,6-bis(dlethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-(CA INDEX NAME) COO COM CA STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

L4 ANSWER 72 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 199606-12-7 REGISTRY
ED Entered STN: 09 Jan 1998
CN Xanthylium 3,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-,
chloride (1:1)
OTHER CA INDEX NAMED
OTHER CA INDEX NAMEO
OTHER CA INDEX NAMEO
N Xanthylium 3,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-,
chloride (9C1)
MF C33 H40 NS 02 . C1
SR CA
LC STN Files: CA, CAPLUS
CRN (199606-32-1)

● c1=

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:41649

L4 ANSWER 74 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 199606-10-5 REGISTRY
ED Enterted STN: 09 Jan 1998
CN Xanthylium, 2,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-,
chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAME)
OTHER CA INDEX NAME:
N Xanthylium, 3,6-bis(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-,
chloride (9CI)
MF C32 H40 NS 02 . C1
SR CA
CA
CA
CCSN 71911es: CA, CAPLUS
CRN (199606-28-5)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:41649

L4 ANSWER 73 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 199606-11-6 REGISTRY
ED Entered STN: 09 Jan 1998
CN Xanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3, 6-bis(diethylamino)-,
chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAME:
N Xanthylium, 9-[2-[(dibutylamino)carbonyl]phenyl]-3, 6-bis(diethylamino)-,
chloride (9CI)
M C 3G6 H48 NS 02 . C1
SR CA
CA
CL STN Files: CA, CAPLUS
CRN (199606-30-9)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

REFERENCE 2: 128:41649

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 128:41649

CA STN Files: CA, CAPLUS

CRN 199605-69-1 CMF C34 H44 N3 02

$$(n-Pr)_{2N} = 0$$

$$0 + NEt_{2}$$

CM 2

CRN 51274-14-7 CMF C32 H22 Cr N10 08 CCI CCS

L4 ANSWER 76 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

CM 1

CRN 199605-69-1 CMF C34 H44 N3 02

85085-80-9 C34 H24 Cr N8 06 CCS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 77 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

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| ANSWER 78 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN | 199605-89-5 REGISTRY | COPYRIGHT 2008 ACS on STN | 199605-89-5 REGISTRY | COPYRIGHT 2008 ACS on STN | River and STN | COPYRIGHT 2008 ACS on STN | STREET AND STREET
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PAGE 1-A

PAGE 2-A

0=S-NH2

L4 ANSWER 79 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 8N 199605-87-3 REGISTRY BENT 199605-87-1 BENT 199605-89-1 B

CM 2

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE) L4 ANSWER 78 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Contin

CM 2

CRN 199605-69-1 CMF C34 H44 N3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 79 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

CM 2 CRN 199605-69-1

O PAGE 1-A

L4 ANSWER 80 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued CMF C34 H44 N3 O2)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 81 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

$$0 \! = \! \begin{matrix} \downarrow \\ S - NH - (CH_2) \, 5 - Me \end{matrix}$$
 PAGE 3-A

CM 2 CRN 199605-69-1 CMF C34 H44 N3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

CM 1

CRN 199605-75-9 CMF C38 H36 Cr N12 012 S2 CCI CCS

CM 2

CRN 199605-69-1 CMF C34 H44 N3 02

CM 1 CRN 199605-69-1 CMF C34 H44 N3 02

CM 2

CRN 68448-45-3 CMF C34 H26 Cr N10 012 S2 CCI CCS

PAGE 1-A

L4 ANSWER 82 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 83 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

| ANSWER 84 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN | 199605-72-6 REGISTRY | REGISTRY CA STN Files: CA, CAPLUS CM 1 CRN 199605-70-4 CMF C34 H44 N3 02 . C32 H24 Co N8 010 CM 2 CRN 199605-69-1 CMF C34 H44 N3 02

CM 3

CRN 51745-75-6 CMF C32 H24 Co N8 010 CCI CCS

L4 ANSWER 85 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN

RN 199605-70-4 REGISTRY
ED Entered STN: 09 Jan 1998
CN Xanthylium, 3.6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]phenyl]-,
bis [2-[2-(hydroxy-R0)-5-nitrophenyl]azo-KNI]-3-(oxo-K0)N-phenylbutanamidato (2-)]ochlatte(1-) (9CI) (CA INDEX NAMES)

OTHER CA INDEX NAMES:
CN Cobaltate(1-), bis [2-[[2-(hydroxy-K0)-5-nitrophenyl]azo-KNI]-3(oxo-K0)-N-phenylbutanamidato (2-)]-,
3.6-bis (diethylamino)-9-[2-[(dipropylamino) carbonyl]phenyl]xanthylium

(9CI)

MF C34 H44 NS 02 . C32 H24 Co NS 010

CI CMM

SR CA CA STN Files: CA, CAPLUS CM 1 CRN 199605-69-1 CMF C34 H44 N3 02 CM 2 51745-75-6 C32 H24 Co N8 010 CCS

- NHPh

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 84 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 128:41649

L4 ANSWER 85 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued) REFERENCE 1: 128:41649

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ANSWER 86 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 199606-69-1 REGISTRY EINERCHESTRY COPYRIGHT 2008 ACS on STN EINTERCHESTRY OF Jan 1998 Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-(CA INDEX NAME) C34 H44 N3 O2 COM CA
L4
RN
ED
CN
MF
CI
SR
```

ANSWER 88 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 194279-19-1 REGISTRY Entered STN: 19 Sep 1997
Manthylium, 9-[2-[4,5-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2],27,28,28a-eicosalhydro-7,13,21,27-tetraoxo-1H,13H-6,12:22,26-dimethenobisazerino[4,5-bi4,6-m][1,4,12,15] tetraazacyelodocosin-10-yl) carbonyl jamin o]hexalydro-1H-azerini-yl]carbonyl]-3,6-bis (dimethylamino)-, [5a5-[5aR*,10448,58*(5aR*,14aR*,19aR*,28aR*)],14aR*,19aR*,28aR*]]-, salt with trifluoroacetic acid (1:1) (9C1) (CA INDEX NAME)
STEREOESERCH
COM
CA CM 1 CRN 193354-07-3 CMF C92 H108 N17 012

PAGE 1-A

Absolute stereochemistry.

L4 ANSWER 87 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
199605-62-4 REGISTRY
DE Entered STN: 09 Jan 1998
CN Xanthylium, 3,6-bis/Giethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-,
chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
N Xanthylium, 3,6-bis/Giethylamino)-9-[2-[(dipropylamino)carbonyl]phenyl]-,
chloride (9:CI)
TG C34 H44 NS 02 . CI
SR CA
LC STN Files: CA, CAFLUS
CRN (199605-69-1)

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

REFERENCE 2: 128:41649

CM 2

CRN 14477-72-6 CMF C2 F3 02

- L4 ANSWER 89 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 193354-26-6 REGISTRY
 ED Entered STN: 29 Aug 1997
 CN Xanthylium, 9-[2-(15,4-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2,1,27,28,28a-eicosahydro-7,18,2),27-tetraoxo-1H,13H-8,12:22,26-dimethembisazetino[4,5-bi4,5-in-m][1,4,12,15] tetraazex-eyclodocosin-10-yl) carbonyl]amino]-1-pyrtolidinyl]-arbonyl]phenyl]-2,6-bis(diethylamino)-, conjugate acid (14), [5a5-[5a8*,10[35*,45*(5aR*,14aR*,19aR*,28aR*)],14aR*,19aR*,28aR*]]- (9CI) (CA INDEX NAME)
 FS STEREOSEANCH
 F COB (104) NIT 012 . 4 H
 SR CA
 CL STN Files: CA, CAPLUS
 CRN (782430-86-8)

Absolute stereochemistry.

PAGE 1-A

Et₂N

- L4 ANSWER 90 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

 RN 193354-25-5 REGISTRY
 Entered STN: 29 Aug 1997

 Nathrylium, 9-[2-(15,4-bis[[(2,3,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,2,1,27,28,28a-eicosahydro-7,18,2),27-tetraoxo-1H,13H-8,12:22,26-dimethembisazering(4,5-bi4,5-in=[[1,4,12,15] tetraazex-evolodocosin-10-yl) carbonyl]amino]-1-pyrtolidinyl]-arbonyl]phenyl]-2,6-bis(diethylamino)-, conjugate acid (14), [5a5-[5a8*,10[3R*,4R*(5aR*,14aR*,19aR*,28aR*)],14aR*,19aR*,28aR*]]- (9CI) (CA INDEX NAME)

 FS STEREOSEARCH
 F COB HOA NIT 012 . 4 H

 SR CA

 CA (CAPLUS

 CRN (745775-24-0)

Absolute stereochemistry.

PAGE 1-A

Et₂N

L4 ANSWER 89 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:149382

L4 ANSWER 90 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

●4 H⁺

Absolute stereochemistry.

PAGE 1-A

0. .0Bu-t

L4 RN ED CN

ANSWER 92 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 193584-12-0 REGISTRY Entered STN: 29 Aug 1997 (SH-fluoren-9-ylmethox)-carbonyl jamiohexahydro-lH-azepin-1-yl]carbonyl]phenyl]-3,6-bis (diethylamino)-, (4S-trans)- (9CI) (CA INDEX NAME) STERROSEARCH C64 H64 N5 06 CA STN Files: CA, CAPLUS

Absolute stereochemistry.

PAGE 1-A

PAGE 2-A

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:149382

L4 ANSWER 91 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A OBu-t

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:149382

ANSWER 98 0F 192 RESISTRY COPYRIGHT 2008 ACS on STN 196354-08-4 RESISTRY BITTER OF THE PROPERTY OF THE PROPERY

CM 1

CRN 76-05-1 CMF C2 H F3 02

C-C02H

CM 2

CRN 194279-19-1 CMF C92 H108 N17 012 . C2 F3 02

CRN 193354-07-3 CMF C92 H108 N17 012

Absolute stereochemistry.

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L4 ANSWER 93 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN

CM 4

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 127:149382

L4 ANSWER 94 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

ANSWER 94 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 193584-07-3 REGISTRY Entered STN: 29 Aug 1997 Entered STN: 29 Entered STN: 21:22, 26-dimethenobly alazelpin(4,5-b-4; 5'-mi]t, 4; 21,51 Enteragazevicolocosin-10-yl) carbonyl]amino) hexahydro-1H-azepin-1-yl]carbonyl]phenyl]-2,6-bis (diethylamino)-, [525-[588*,104]R*,5**(58R*,148R*,198R*,288R*)], 144R*, 1 SHRBOSEAR(J) (CA INDEX NAME) ETREGOSEAR(J) (CA INDEX NAME) ETREGOSEAR(J) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

ANSWER 95 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 187032-35-5 REGISTRY Entered STN: 13 Mar 1997
D-Streptamine, 0-2-amino-6-[[4-[3,6-bis(dimethylamino)xanthylium-9-y1]-3-carboxybenzoyllmethylamino]-2,3,4,6,7-bentadeoxy-a-D-riborhentopyranosyl-(14-0)-[3-deoxy-4-C-methyl-3-morethylamino)-p-L-arabinopyranosyl-(14-0)-[3-deoxy-4-C-methyl-3-morethylamino)-p-L-arabinopyranosyl-(14-0)-2-deoxy-, inner salt (9CI) (CA INDEX NAME) STRENDESARVANICA (ASTN 511es: CA, CAPLUS

Absolute stereochemistry.

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ANSWER 96 OF 132 REGISTRY COPYRIGHT 2008 ACS on SIN

RN 165195-69-7 REGISTRY
ED Entered SIN: 25 Jul 1995
Entered SIN: 25 Jul 1995
(N Xanthylium, 9-12-[1(4,5:5)-4,5-diaminohexahydro-1H-azepin-1-yılcarbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

OTHER CA INDEX NAMES:
(N Xanthylium, 9-12-[4,5-diaminohexahydro-1H-azepin-1-yılcarbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (9CI)
SIERBOSEARCH
MF C34 H44 N5 O2. C1
SIR C4.
C5 SIN Files: C4, CAPLUS, CASREACT
CRN (762216-25-1)

● C1 =

REFERENCE 1: 146:212209 REFERENCE 2: 123:83992

Absolute stereochemistry.

L4 ANSWER 97 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-B

PAGE 3-A

CM 2

CRN 14477-72-6 CMF C2 F3 02

11/10/2008

ANSWER 97 OF 132 REGISTRY COPYRIGHT 2008 ACS on SIN 165195-66-4 REGISTRY Entered SIN: 25 Jul 1995 Acanthylium, 9,9 -[[1, 2, 4, 5, 5a, 6, 7, 14, 14a, 15, 16, 17, 18, 19, 19a, 20, 21, 27, 28, 28 a, 29, 30, 32, 23, 33, 33, 34, 25, 42, 42a, 43, 44, 45, 46, 47, 47a, 48, 49, 55, 56, 56a, 61, 62, 63, 64, 65, 67, 47, 75, 67, 77, 87, 97-dopentacontahydro-7, 13, 21, 27, 35, 41, 49, 55, 58, 68, 71, 81-dodecaoxo-3H, 13H, 31H, 41H, 60H, 73H-10, 24:38, 52-bis (methanim ino [4, 5]-endo-azepin chimomethano)-8, 12:22, 26:36, 40:50, 54-tetramethenotetrak isazenino [4, 5]-endin-3, 31-diyllbis (carbonyl-2, 1-phenylene)]bis[3, 6-bis (diethylamino)-, 5-dis (diethylamino)-, 6-dis (diethylamino)-, 6-dis

CRN 165195-65-3 CMF C128 H148 N22 016

PAGE 1-A

L4 ANSWER 97 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

PAGE 1-A

ANSWER 99 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 165195-64-2 REGISTRY Entered STN: 25 Jul 1996
Kanthylium, 9,9 -[[17, 45, 63, 76-tetrakis[(1, 1-dimethylethoxy) carbonyl]-1,2,4,5,5a,6,7,14,14a,15,16,17,18,19,19a,20,21,27,28,28a,29,30,32,33,33,3,3,55,4,54,54,42,43,44,45,46,47,47a,48,49,55,56,66,61,62,63,64,65,66,74,76,76,77,78,79-dopentacontahydro-7,13,21,27,35,41,49,55,58,68,71,81-dodecaoxo-34,134,134,144,16,607,73H-10,2428,55-2bis (methanimino[4,5]-endo-azerinoiminomethano)-8,12:22,26:36,40:50,54-tetramethenotetrakis azerino[4,5-bi4,5'-mi4'',5'-mi4'',5''-11][1,4,12,15,23,26,34,37]octaazacyclotetratetracontine-3,31-diyllbis(azhonyl-2,1-phenylene]bis(3,6-bis(dithylamino)-, dichloride, [5a3-(5a8+14a8+19a8*,23a8*,33a8*,42a8*,47a8*,56a8*,608*,668*,738*,798*)]-CI48 H180 N22 024 . 2 C1 CA STN Files: CA, CAPLUS, CASREACT (744177-13-7)

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

PAGE 3-A

●2 C1=

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 123:83992

L4 ANSWER 98 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A Et2N

PAGE 2-B

PAGE 3-A

L4 RN ED CN

ANSWER 100 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 188033-91-7 REGISTRY Entered STN: 21 Dec 1991 Benzamide, 2-[6-(diethylamino)-2-[ethyl[3-(trifluoromethyl)phenyl]amino]-91ranthen-9-yl]-N.N-dimethyl- (CA INDEX NAME) C35 H66 F3 N3 02 CA STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 116:13465

L4 ANSWER 101 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 127193-48-0 REGISTRY PROPERTY REGISTRY COPYRIGHT 2008 ACS on STN
Consideration of the state of the sta

CM 1

CRN 127198-47-9 CMF C58 H65 N6 04

CM 2

CRN 21228-90-0 CMF C H3 04 S

Me-0-S03-

2 REPERENCES IN FILE CA (1907 TO DATE) 2 REPERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:76341 REFERENCE 2: 112:218769

L4 RN ED CN

ANSWER 103 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 125282-77-1 REGISTRY Entered STN: 09 Feb 1990

Xanthylium, 9,9'-[[[3-(dimethylamino)propyl]imino]bis(carbonyl-2,1-phenylene)]bis[3,6-bis(ethylamino)-2,7-dimethyl-, diacetate, monoacetate (9xI) (CA INDEX NAME)

CST H64 NG 04 . C2 H4 02 . 2 C2 H3 02

CAS Client Services

CM 1

CRN 64-19-7 CMF C2 H4 02

HO-C-CH3

CM 2

CRN 340154-97-4 CMF C57 H64 N6 04 . 2 C2 H3 02

CM 3

CRN 339570-30-8 CMF C57 H64 N6 O4

PAGE 1-A Me2N- (CH2)3

PAGE 2-A

CM 4

CRN 71-50-1 CMF C2 H3 02

L4 RN ED CN

ANSWER 102 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 127193-47-9 REGISTRY Entered STN: 18 May 1990 1-Propanaminium, 3-[bis[2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-axhthen-9-yl]lenzoyl]amino]-N, N, N-trimethyl- (CA INDEX NAME) CS8 H65 N6 04 CA

L4 ANSWER 103 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN (Continued) -0-C-CH3

ANSWER 104 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 125282-76-0 REGISTRY Debtered STN: 09 Feb 1990 Benzamide, N-[3-(dimethylamino)propyl]-2-[6-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H:xanthen-9-yl]-N-[2-16-(ethylamino)-3-(ethylimino)-2,7-dimethyl-3H:xanthen-9-yl]benzoyl]- (CA INDEX NAME) CST 16C NG 04 CAS Client Services STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:261999 REFERENCE 2: 112:218769

ANSWER 106 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 117032-53-8 REGISTRY Entered STN: 22 Oct 1988

Xanthylium, 3,6-bis (dimethylamino)-9-[3-[(2,5-dioxo-1-pyrrolidinyl)carbonyl]phenyl]- (CA INDEX NAME)
C28 126 N3 04
CA STN Files: CA, CAPLUS L4 RN ED CN

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:226184

ANSWER 105 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 117047-17-5 REGISTRY Entered STN: 22 Oct 1988 Kanthylium, 3,6-bis (dimethylamino)-9-[2-[(2,5-dioxo-1-pytrolidinyl)carbonyl]phenyl]- (CA INDEX NAME) C28 H26 N3 O4 CA STN Files: CA, CAPLUS

2 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209

REFERENCE 2: 109:226184

- L4 RN ED CN
- ANSWER 107 0F 182 REGISTRY COPYRIGHT 2008 ACS on STN 112347-73-6 REGISTRY Entered STN: 16 Jan 1988 Xanthylium, 9-[2-[(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-y1)carbonyl]phenyl]- (3,6-bis (ethylamino) (CA INDEX NAME) C38 H24 N3 04 C STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 108:70907

ANSWER 108 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 105292-25-9 REGISTRY Entered STN: 22 Nov 1986 Benzamide, N.N-diethyl-2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl]- (CA INDEX NAME) C30 H35 N3 02 CA STN Files: CA, CAPLUS, USPATFULL L4 RN ED CN

MF SR LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 105:210416

L4 ANSWER 110 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
N 103041-64-6 REGISTRY
DE Entered STN: 20 Aug 1986
CN Xanthylium, 3,6-his(diethylamino)-9-[2-[(dioctadecylamino)carbonyl]phenyl]chloride (1:1) (CA INDEX NAME)
OTHER CA INDEX NAMES:
N Xanthylium, 3,6-bis(diethylamino)-9-[2-[(dioctadecylamino)carbonyl]phenyl]chloride (9C)
M Coft blook 302. C1
SR CA
CC STN Files: CA, CAPLUS
CRN (745748-20-3)

$$\begin{array}{c} \text{Me-} (\text{CH2}) \ 17 \\ \text{Me-} (\text{CH2}) \ 17 - N \\ \\ \text{Bt2N} \end{array} \\ \begin{array}{c} \text{NEt2} \\ \end{array}$$

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 105:103254

L4 RN ED CN

ANSWER 109 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 105292-24-8 REGISTRY Entered STN: 22 Nov 1986 Benzamide, 2-[6-(ethylamino)-3-(ethylimino)-2, 7-dimethyl-3H-xanthen-9-yl]-CSB H31 N3 02 CA STN Files: CA, CAPLUS, USPATFULL

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 135:261999 REFERENCE 2: 105:210416

L4 RN ED CN

ANSWER 111 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-16-0 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[3-chioro-6-(diethylamino)-2-methyl-9H-xanthen-9-yl]-N-methyl-N-phenyl- (CA INDEX NAME) 171797-43-0 C32 H31 C1 N2 02 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE) 4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 111:25096 REFERENCE 2: 109:192728 REFERENCE 3: 107:178874 REFERENCE 4: 103:125012

ANSWER 112 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-15-9 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[2-[(2-chlorophenyl)amino]-6-(dibutylamino)-9H-xanthen-9-yl]-C41 H42 Cl N3 O2 C4 STN Files: CA, CAPLUS L4 RN ED CN

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

ANSWER 114 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-13-7 REGISTRY Entered STR: 29 Sep 1985 Entered STR: 29 Sep 1985 Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-(4-methylphenyl)- (CA INDEX NAME) CG STR Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

ANSWER 113 0F 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-14-8 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[6-(cyclohexylmethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl-1]-N-methyl-N-phenyl- (CA INDEX NAME) C41 H41 N3 02 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

L4 RN ED CN

ANSWER 115 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-12-6 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-ctyl-N-benyl- (CA INDEX NAME) C39 339 N3 02 CASTN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

ANSWER 116 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-11-5 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[6-(diethylamino)-3-methyl-2-(phenylamino)-9H-xanthen-9-yl]-N-methyl-N-bhenyl- (CA INDEX NAME) C38 H37 N3 02 C4 STN Files: CA, CAPLUS

L4 RN ED CN

MF SR LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 109:101981 REFERENCE 2: 103:125012

- ANSWER 118 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-09-1 REGISTRY Entered STR: 29 Sep 1985 Entered STR: 29 Sep 1985 Benzamide, 2-[3-chloro-6-(diethylamino)-2-(phenylamino)-9H-xanthen-9-y1]-N-methyl-N-bhenyl- (CA INDEX NAME) C37 H34 C1 N3 02 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

L4 RN ED CN

ANSWER 117 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-10-4 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[2-[bis (phenylmethyl) amino]-6-(diethylamino)-9H-xanthen-9-yl]-Nrethyl-Nr-bhenyl- (CA INDEX NAME) C45 H43 N3 02 C45 NF Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

- L4 RN ED CN
- ANSWER 119 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-08-0 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[3-chloro-6-(diethylamino)-2-methyl-9H-xanthen-9-yl]-N,N-037 B33 Cl N2 02 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

L4 ANSWER 120 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN RN 98257-07-9 REGISTRY DB Entered STN: 29 Sep 1985 CN Benzamide, 2-[9-(diethylamino)-12H-benzo[a]xanthen-12-y1]-N,N-diethyl-OTHER CA INDEX NAMES: CN 12H-Benzo[a]xanthene, benzamide deriv. STR C32 H34 N2 02 SR CA LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

- L4 RN ED CN
- ANSWER 122 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-05-7 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-yl]-N-methyl-N-phenyl-(CA INDEX NAME) CS5 H39 N3 O2 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

L4 RN ED CN

ANSWER 121 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-06-8 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-yl]-N,N-diphenyl- (CA DAC H41 N3 02 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

- L4 RN ED CN
- ANSWER 123 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-04-6 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-15, 6-bis (diethylamino)-9H-xanthen-9-yl]-N, N-bis (phenylmethyl)-CA1 INDEX NAME) C42 H45 N3 O2 CA STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

ANSWER 124 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 98257-03-5 REGISTRY Entered STN: 29 Sep 1985 Benzamide, 2-[3,6-bis(diethylamino)-9H-xanthen-9-yl]-N,N-diethyl- (CA DDEX NAME) C32 H41 N3 O2 CA STN Files: CA, CAPLUS L4 RN ED CN

MF SR LC

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 103:125012

- ANSWER 126 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 80318-91-8 REGISTRY Entered SIN: 16 Nov 1984 Carbamic acid. [2-[3,6-bis(diethylamino)-9H-xanthen-9-y1]benzoy1]methyl-, 2-(methylsulfonyl)ethyl ester (9CI) (CA INDEX NAME) SIN Files: CA, CAPLUS, USPATFULL L4 RN ED CN

$$\begin{array}{c} \text{Me} - \\ \text{O} - \\ \text{CH}_2 - \text{CH}_2 - \\ \text{O} - \\ \text{Ne} \end{array} \\ \begin{array}{c} \text{NEt}_2 \\ \text{NEt}_2 \end{array}$$

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE) 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 96:172117 REFERENCE 2: 96:53846

3 REFERENCES IN FILE CA (1907 TO DATE) 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 146:212209 REFERENCE 2: 96:172117 REFERENCE 3: 96:53846

L4 ANSWER 127 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 88x79-03-6 REGISTRY COPYRIGHT 2008 ACS on STN 88x79-03-6 REGISTRY Dentered STN: 16 Nov 1984 CN Ethanaminium, N-[7-(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-3H-xanther-3-ylidene]-N-ethyl-, (T-4)-tetrachlorozincate (2-) (2:1) (CA INDEX NAMES) CN Zincate (2-), tetrachloro-, (T-4)-, bis[N-[7-(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-3H-xanther-3-ylidene]-N-ethylethanaminium) (9CI) MF C33 H40 NS 02: 1/2 C14 Zn LC STN Files: CA, CAPLUS

CM 1

CRN 58379-02-5 CMF C33 H40 N3 02

CM 2

CRN 15201-05-5 CMF C14 Zn CCI CCS

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 84:106994

ANSWER 128 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 588.79-02-5 REGISTRY Entered STN: 16 Nov 1984 Ethanaminium, N-[7-(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-3H-xanthen-5-y-lidene]-N-ethyl- (CA INDEX NAME) C33 H40 N3 O2 COM L4 RN ED CN

L4 ANSWER 130 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 58377-90-5 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethanaminium, N-[7-[2-](diethylamino)carbonyl]phenyl]-10H-benzo[c]xanthen10-ylidene]-N-ethyl- (CA INDEX NAME)
CN 10H-Benzo[c]xanthene, ethanaminium deriv.
MF 622 H33 N2 02
CI CM

L4 ANSWER 129 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
RN 88377-91-6 REGISTRY
ED Entered STN: 16 Nov 1984
CN Ethananinium, N-[7-[2-[(diethylamino)carbonyl]phenyl]-10H-benzo[c]xanthen10-ylidene]-N-ethyl-, acetate (9Cl) (CA INDEX NAME)
CN 10H-Benzo[c]xanthene, ethanaminium deriv.
CN 10H-Benzo[c]xanthene, ethanaminium deriv.
CS 218 30 20 2. CB 30 20
LC STN Files: CA, CAPLUS

CM 1

CRN 58377-90-5 CMF C32 H33 N2 02

CM 2

CRN 71-50-1 CMF C2 H3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 84:91547

L4 RN ED CN

ANSWER 131 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN 58377-89-2 REGISTRY Entered SIN: 16 Nov 1984 Ethananinum, N-[7-chloro-9-[2-[(diethylamino)carbonyl]phenyl]-6-methyl-3H-xanthen-3-ylidene]-N-ethyl-, acetate (9CI) (CA INDEX NAME) SIN Files: CA, CAPLUS

CM 1

CRN 58377-88-1 CMF C29 H32 C1 N2 02

CM 2

CRN 71-50-1 CMF C2 H3 02

1 REFERENCES IN FILE CA (1907 TO DATE) 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 84:91547

- L4 ANSWER 132 OF 132 REGISTRY COPYRIGHT 2008 ACS on STN
 RN 58377-88-1 REGISTRY
 ED Entered STN: 16 Nov 1984
 CD Ethanninium, N-[7-chloro-9-[2-[(diethylamino)carbonyl]phenyl]-6-methyl-3Hxanthen-3-ylidene]-N-ethyl- (CA INDEX NAME)
 CI COM

=> fil capl
FILE 'CAPLUS' ENTERED AT 10:00:15 ON 06 NOV 2008
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FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19 FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

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http://www.cas.org/legal/infopolicy.html '.FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s 13 L6 71 L3

=> s 16 not 15 L7 28 L6 NOT L5

=> d 1-28 bib abs hitstr

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PB DT LA AB

● C1-

877212-89-0
RE: RCT (Reactant); RACT (Reactant or reagent)
N-terminal protein modification through biomimetic transamination
reaction (Brratum)
877212-89-0 CAPLUS
Xanthylium, 3,6-bis (diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-,
chloricd (:1) (CA RDEX NAME)

ANSWER 2 0F 28 CAPLUS COPYRIGHT 2008 ACS on STN 2008:1001057 CAPLUS Array-based fluorescence assay for serine/threonine kinases using specific chemical reaction Akita, Shoji: Umezawa, Naoki: Kato, Nobuki: Higuchi, Tsunehiko Graduate School of Pharmaceutical Sciences, Nagoya City University, 3-1 Tanabe-dori, Mizuho-ku, Nagoya, Aichi, 467-8603, Japan Bioorganic & Medicinal Chemistry (2008), 16(16), 7788-7794 CODEN: EMECEF; ISSN: 0968-0896 Elsevier Ltd. Journal

English We repor

Journal English
We report herein the development of an efficient fluorescence assay for serine/threonine kinases using a peptide array. Our approach is based on chemical reactions specific to phosphoserine and phosphothreonine residues, i.e., base-mediated P-elimination of the phosphate group and subsequent Michael addition of a thiol-containing fluorescent reagent. This procedure enables the covalent introduction of a fluorescent moiety into the phosphorylated peptide. Novel fluorescent reagents were designed for this purpose and synthesized. With these reagents, protein kinase A (FMA) and Akt-1 activities were readily detected. Our method can also be used to measure the activity of kinase inhibitors. This assay is expected to be widely applicable in kinase research.

1070798-90-1P 1070798-32-3P
RL: ARG (Analytical reagent use): SFN (Synthetic preparation): ANST (Analytical study): FRPC (Preparation): USES (Uses)

(fluorescent reagent: tetramethylrhodmine derivative reagents preparation and base-stable peptide array-based fluorescence assay for serime/threonine kinases using base-mediated phosphate P-elimination)

1070798-90-1 CAPLUS
100EX NAME NOT YET ASSIGNED

PAGE 1-A

 $\verb|HS-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-$

PAGE 1-B

1070798-92-3 CAPLUS INDEX NAME NOT YET ASSIGNED

11/10/2008

L7 ANSWER 1 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

● C1-

912671-75-1P
RE: SPN (Synthetic preparation); PREP (Preparation)
(N-terminal protein modification through biomimetic transamination reaction (Erratum))
912671-75-1 CAPLUS
Xanthylium, 3,6-bis/Giethylamino)-9-[2-[[4-[6-[[(1,1-dimethylethoxy)carbonyl]] amino]oxy]hexy]]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

$$\begin{array}{c} 0 \\ t\text{-Bu}0\text{-}\text{C-NH-0-}(\text{CH}_2)6 \end{array}$$

$$\text{Bt}_2N \xrightarrow{0} 0 \\ \text{NEt}_2$$

• c1 ·

L7 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

 $\verb|HS-CH|_2 - \verb|CH|_2 - \verb|O-CH|_2 - O-CH|_2 - \verb|O-CH|_2 - O-CH|_2 - O-CH|_2$

PAGE 1-B

PAGE 1-C

1070798-95-6F 1070798-97-8P 1070798-98-9P RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (tetramethylrhodamine derivative reagents preparation and base-stable peptide array-based fluorescence assay for serine/threonine kinases using base-mediated phosphate β-elimination)
1070798-95-6C (APLUS INDEX NAME NOT YET ASSIGNED

1070798-97-8 CAPLUS INDEX NAME NOT YET ASSIGNED

L7 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

 $\verb|AcS-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-CH_2-O-CH_2-O-CH_2-CH_2-O-CH_2$

PAGE 1-B

1070798-98-9 CAPLUS INDEX NAME NOT YET ASSIGNED

PAGE 1-A

AcS-CH2-CH2-0-CH2-CH2-0-CH2-CH2-0-CH2-0-CH2-CH2-0-CH2-0-CH2-0-CH2-0-

PAGE 1-B

L7 AN DN TI

ΑU

ANSWER 3 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2008:799316 CAPLUS 149:170484
149:170484
Detection and Relative Quantification of Proteins by Surface Enhanced Raman Using Isotopic Labels Deb, Shirshendu K.; Davis, Brandon; Knudsen, Giselle M.; Gudihal, Ravindra; Ben-Amota, Dor; Davisson, V. Jo
Department of Medicinal Chemistry and Molecular Pharmacology, Bindley Bioscience Center, and Department of Chemistry, Furdue University, West Lafayette, IN, 47907, USA; Journal of the American Chemical Society (2008), 130(30), 9624-9625 CODEN: JASAT; ISSN: 0002-7863
American Chemical Society
Journal

SO

Journal English

Journal English
Accurate quantification of protein content and composition has been achieved using isotope-edited surface enhanced resonance Raman spectroscopy. Synthesis of isotopomeric Rhodamine dye-linked bioconjugation reagents enabled direct labeling of surface lysines on a variety of proteins. When separated in polyacrylamide gels and stained with silver nanoparticles, the spectral signatures reflect the expected statistical distribution of isotopomeric labels on the labeled proteins in the gel matrix format without interference from protein features.

1040134-67-59 1040134-69-7P
RE: ARC (Analytical reagent use); BUU (Biological use, unclassified); SPN (Synthetic preparation); ISSS (Uses)
(detection and relative quantification of proteins by surface enhanced Raman using isotopic labels, SIS-polyacrylamide gel electrophoresis, and silver nanoparticle staining)

1040134-67-5 CAPLUS
Xanthylium, 9-[2-[[6-[(2.5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl[methylamino]-attrobryl]phenyl]-3,6-bis(ethylamino)-2,7-dimethyl-, chloride (1:1) (CA INDEX NAME)

c1=

1040134-69-7 CAPLUS
Xanthylium, 9-[6-[[6-[(2,5-dioxo-1-pyrrolidinyl)oxy]-6-oxohexyl]nethylamino]carbonyl]phenyl-2,3,4,5-d4]-3,6-bis(ethylamino)-2,7-dimethyl-, chloride (1:1) (CA INDEX NAME)

11/10/2008

L7 ANSWER 2 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-C

RE. CNT 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• C1 -

1040134-61-9P 1040134-65-9P RL: RCT (Reactant): SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (Retection and relative quantification of proteins by surface enhanced Raman using isotopic labels. SDE-polyacrylamide gel electrophoresis, and silver nanoparticle staining) 1040134-61-9 (APLUS (APLUS ARMAN) (APLUS

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{O} \\ \text{C} \\ \text{C} \\ \text{CH2} \\ \text{S} \\ \text{N-} \\ \text{N-} \\ \text{O} \\ \text{O} \\ \text{We} \\ \text{O} \\ \text{O} \\ \text{N} \\ \text{HE} \\ \text{NHE} \\ \text{O} \\ \text{O} \\ \text{N} \\ \text{O} \\ \text{O} \\ \text{N} \\ \text{O} \\ \text{O} \\ \text{N} \\ \text{O} \\$$

• c1 -

1040134-65-3 CAPLUS Xanthylium, 3,6-bis(ethylamino)-9-[2-[[(6-methoxy-6-oxolexyl)methylamino]carbonyl]phenyl]-2,7-dimethyl-, chloride (1:1) (CA TMDEX NAME)

L7 ANSWER 3 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

• c1

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 17

L7 ANSWER 4 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 4 0F 28 CAPLUS COPYRIGHT 2008 ACS on STN
2008:68:1481 CAPLUS
149:4379
Characterization of a Three-Component Coupling Reaction on Proteins by
1sotopic Labeling and Nuclear Magnetic Resonance Spectroscopy
McFarland, Jesse M.; Joshi, Neel S.; Francis, Matthew B.
Department of Chemistry, University of California, Berkeley, CA,
44720-1460, USA
Journal of the American Chemical Society (2008), 130(24), 7639-7644
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Journal
English
CASREACT 149:4379
A three-component Mannich-type electrophilic aromatic substitution reaction
was previously developed to target the phenolic side chain of tyrosine
residues on proteins. This reaction proceeds under mild conditions and
provides a convenient alternative to lysine-targeting strategies.
However, the use of reactive aldehydes, such as formaldehyde, warrants
careful inspection of the reaction products to ensure that other
modifications have not occurred. Through the use of isotopically enriched
reagents, NMC-based studies were used to obtain structural confirmation of
the tyrosine-modification products. These expts. also revealed the
formation of a reaction byproduct arising from the indole ring of
tryptophan residues. Cysteine residues were shown to not participate in
the teaction, except in the case of a reduced disulfide, which formed a
useful for the feataled study of a number of bioconjugation reactions.
824402-00-8 CAPLUS
KL-BUN (Biological use, unclassifisher): INSES (Uses)
(characterization of three-component coupling reaction on proteins by
isotopic labeling and NMR spectroscopy)

824402-00-8 CAPLUS
Kanthylium, 9-[2-[14-[5-[[[2-(4aminophenyl-thyl]aminol-arbonyl]popyl]-1piperazinyl]carbonyl]phenyl]-3,6-bis(diethylamino)
(CA INDEX NAME)

PAGE 1-B

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ANSWER 5 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2008:96607 CAPLUS 148:379918

L7 AN DN TI

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ANSWER 5 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2008:96607 CAPLUS 148:379918 Peptoidic Amino- and Guanidinium-Carrier Systems: Targeted Drug Delivery into the Cell Cytosol or the Nucleus Schroeder, Tina: Niemeier, Nicole; Afonin, Sergii; Ulrich, Anne S.; Krug, Harald F.; Braese, Stefan Institute of Organic Chemistry, University of Karlsruhe (TH), Karlsruhe, 76131, Germany Journal of Medicinal Chemistry (2008), 51(3), 376-379 CODEN: JMCMAR: ISSN: 0022-2623 American Chemical Society Journal English CASRACT 148:379918 Efficient drug delivery is essential for many therapeutic applications. Some cell-penetrating peptides, peptide mimetics, and peptoids express transport function that, however, lack in most cases specific intracellular destination. In this study, carrier-peptoids with either amino or guanidinium side chains were synthesized via solid-phase synthesis, and investigated with regard to their cellular uptake, toxicity, and intracellular localization. Transport specifically to the cytosol or to the nuclei was observed, thus providing a powerful tool for targeted drug delivery. 1013122-47-89 RL: SDU (Biological study); PREP (Preparation) (preparation and evaluation of peptoids with amino or guanidinium side chains as drug delivery systems) [31012-37-8 CAPLUS Glycinamide, N-[6-1(aminoiminomethyl)amino) hexyl] yeyl-N-[6-1(aminoiminomethyl)amino) hexyl yeyl-N-[6-1(aminoiminomethyl)amino) hexyl yeyl-N-[6-1(aminoiminometh

PAGE 1-A

PAGE 2-A H2N-C-NH-(CH2)6-N-C-H2N-C-NH-(CH2)6-N-C-CH2 H2N-C-NH-(CH2)6-N-C-CH2

1013122-52-5DP, resin-bound RL: RCT (Reactant): STN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (Reactant or reagent) (preparation and evaluation of peptoids with amino or guanidinium side chains as drug delivery systems) (1013122-52-5 (APUS Glycinamide, N-[2-[3,6-bis (diethylamino)xanthylium-9-yl]benzoyl]-N-[6-[[(2-nitrophenyl)xulfonyl]amino]hexyl]glycyl-N-[6-[[(2-nitrophenyl)xulfonyl]amino]hexyl]glycyl-N-[6-[[(2-nitrophenyl)xulfonyl]amino]hexyl]glycyl-N-[6-[[(2-nitrophenyl)xulfonyl]amino]hexyl]glycyl-N-[6-[(2-nitrophenyl)xulfonyl]amino]hexyl]- (CA INDEX NAME)

ANSWER 6 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:1366914 CAPLUS 148:138795

L7 AN DN TI

Fluorescent and Affinity-Based Tools To Detect Cysteine Sulfenic Acid

Fluorescent and Affinity-Based Tools To Detect Cysteine Sulfenic Acid Formation in Proteins
Foole, Leslie B.; Klomsiri, Chananat; Knaggs, Sarah A.; Furdui, Cristina M.; Nelson, Kimberly J.; Thomas, Michael J.; Fetrow, Jacquelyn S.; Daniel, Larry W.; King, S. Bruce
Department of Biochemistry and Section on Molecular Medicine, Wake Forest
University School of Medicine, Winston-Salem, NC, 27157, USA
Bioconjugate Chemistry (2007), 18(6), 2004-2017
ODEN: SCCHES; ISSN: 1045-1802
American Chemical Society
Journal ΑU

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Journal Bandish Cortes of the Cortes of the Cortes of the Cortes and the Cortes of the

(Tiborescent and affinity-massed tools to detect dysteinesuitens: formation in proteins) 1001575-99-9 (ARI) Asathylium, 3,6-bis(diethylamino)-9-[2-[[4-[[3-(2,4-dioxocyclohexyl)propoxy]carbonyl]-l-piperazinyl]carbonyl]phenyl]-, chloride (:1) (CA INDEX NAME)

● C1⁻

1001576-01-7 CAPLUS
Xanthylium, 3.6-bis(diethylamino)-9-[2-[[4-[4-[[[3-(2,4-dioxocyolohexyl)propoxy]carbonyl]amino]-1-oxobutyl]]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

11/10/2008

L7 ANSWER 5 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A CH2 C-N-(CH2)6-NH-0 CH2-C-NH2 Et₂N

PAGE 1-B

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THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 34

L7 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

-NEta

1001575-96-7P 1001575-97-8P 1001575-99-0P 1001576-00-6P RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (fluorescent and affinity-based tools to detect cysteinesulfenic acid formation in proteins) 1001575-96-7 CAPIUS Xanthyllum, 3,6-bis (diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-, hydrochloride (1:1) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ &$$

• HC1

1001575-97-8 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[[3-(4-ethoxy-2-oxo-3-cyclohexen-1-y1)propoxy]carbonyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

1001575-99-0 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[4-[(1,1-dimethylethoxy)carbonyl]amino]-1-oxobutyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

c1-

L7 AN DN TI

1001576-00-6 CAPLUS
Xanthylium, 3,6-bis (diethylamino) -9-[2-[[4-[4-[[3-(4-ethoxy-2-oxo-3-cyclohexen-1-y1)propoxy]carbonyl]amino]-1-oxobutyl]-1piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

c1 =

ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:1364408 CAPLUS 148:35065 Rhodamine fluorescent dye compounds and the use of their labeled

TI Rhodamine fluorescent dye compounds and the use of conjugates

IN Romanov, Nikolai Nikolaevich; Barnes, Colin Lloyd
PA Solexa Limited, UK
SO PCT Int. Appl., 102pp.
CODEN: PIXXD2

T Patent

LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION

CRN 958868-35-4 CMF C38 H47 N3 013 S3

CM 1

NH- (CH₂)₃-SO₃H HO3S- (CH2)3-NH

L7 ANSWER 6 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

~NEto

11/10/2008

RE CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

CM 2 CRN 121-44-8 CMF C6 H15 N Et-N-Et 968868-38-7 CAPLUS Xanthylium, 9-[2-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperidimyl]carbonyl]-6-sulfophonyl]-3,7-dimethyl-3,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA_INDEX_MAME) CM 1 CRN 958868-37-6 CMF C38 H47 N3 013 S3 NH- (CH₂)₃-SO₃H H03S- (CH2)3-NH CM 2 CRN 121-44-8 CMF C6 H15 N Et-N-Et 968868-40-1 CAPLUS Xanthylium, 9-[2-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperidinyl]carbonyl]-4-sulfophenyl]-2,7-dimethyl-3,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA_INDEX_NAME) CM 1 CRN 958868-39-8 CMF C38 H47 N3 013 S3

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 121-44-8 CMF C6 H15 N

Et-N-Et

968868-42-3P 958868-44-5P 968868-46-7P RE: ARG (Analytical reagent use); IMF (Industrial manufacture); ANST (Analytical study); PREF (Preparation); USES (Uses) (fluorescent dye; manufacture of rhodamine fluorescent dye compds. and use in biomol. staining or labeling) 985868-42-5 CAPLUS (Xanthylium, 9-[2-[(4-carboxy-1-piperidinyl)carbonyl]-6-sulfophenyl]-2,7-dimethyl-3,6-bis[(3-sulforopyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-41-2 CMF C34 H39 N3 013 S3

CM 2

CRN 121-44-8 CMF C6 H15 N

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

$$\begin{array}{c} \text{SO}_3\text{H} \\ \text{O}_2 \\ \text{Me} \\ \text{HO}_3\text{S} - (\text{CH}_2)_3 - \text{NH} \\ \end{array} \\ \begin{array}{c} \text{NH} - (\text{CH}_2)_3 - \text{SO}_3\text{H} \\ \text{O}_+ \\ \end{array}$$

CM 2

CRN 121-44-8 CMF C6 H15 N

Et-N-Et

968868-12-7P 968868-16-1P
RL: IMF (Industrial manufacture); PREP (Preparation)
(manufacture of rhodamine fluorescent dye compds. and use in biomol.
staining or labeling)
968868-12-7C ACPLUS
Xanthylium, 9-[2-[(4-carboxy-1-piperidinyl)carbonyl]phenyl]-2,7-dimethyl-3,6-bis(G3-sulfororow)lamino]-, inner salt. compd. with
N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-11-6 CMF C34 H39 N3 010 S2

CM 2

CRN 121-44-8 CMF C6 H15 N

Et-N-Et

958868-16-1 CAPLUS Xanthylium, 9-[2-[[(carboxymethyl)methylamino]carbonyl]phenyl]-2,7-

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

Et-N-Et

968868-44-5 CAPLUS Xanthylium, 9-[2-[(4-carboxy-1-piperidinyl)carbonyl]-5-sulfophenyl]-2,7-dimethyl-8,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-43-4 CMF C34 H39 N3 013 S3

CM 2

CRN 121-44-8 CMF C6 H15 N

968868-46-7 CAPLUS Xanthylium, 9-[2-[(4-carboxy-1-piperidinyl)carbonyl]-4-sulfophenyl]-2,7-dimethyl-3,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-45-6 CMF C34 H39 N3 013 S3

ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) dimethyl-3, G-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-15-0 CMF C31 H35 N3 010 S2

$$\begin{array}{c} M_{\rm e} \\ -o_2{\rm C-CH_2-N-1} \\ M_{\rm e} \\ M_{\rm e} \\ M_{\rm e} \\ +o_3{\rm S-(CH_2)_3-NH} \end{array}$$

CM 2

CRN 121-44-8 CMF C6 H15 N

Et-N-Et

968868-10-5P 968868-14-9P 968868-18-3P 968868-84-3P 968868-84-3P RL: LMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (manufacture of thodamine fluorescent dye compds. and use in biomol. staining or labeling) 968868-10-6 CAPLUS Xanthylium, 9-[2-[[4-[(1,1-dimethylethoxy)carbonyl]-1-piperidinyl]carbonyl]phenyl]-2, 7-dimethyl-3, 6-bis[(3-sulfopropyl)anino]-, inner salt, compd. with N.N-diethylethanamine (1:1) (CA INDEX NAME)

CRN 958868-09-2 CMF C38 H47 N3 010 S2

CM 2

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

Et-N-Et

968868-14-9 CAPLUS Xanthylium, 9-[2-[[[2-(1,1-dimethylethoxy)-2-coxethyl]methylamino]carbonyl]phenyl]-2,7-dimethyl-3,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CM 1

CRN 958868-13-8 CMF C35 H43 N3 010 S2

CM 2

CRN 121-44-8 CMF C6 H15 N

Et-N-Et

958868-18-3 CAPLUS Xanthylium, 9-[2-[[(3-carboxypropyl)methylamino]carbonyl]phenyl]-2,7-dimethyl-2,6-bis[(3-sulfopropyl)amino]-, inner salt, compd. with N,N-diethylethanamine (1:1) (CA INDEX NAME)

CRN 958868-17-2 CMF C33 H39 N3 010 S2

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

CM 2

CRN 121-44-8 CMF C6 H15 N

Et Et-N-Et

924660-22-0P 958868-83-2P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (probe synthesis; manufacture of rhodamine fluorescent dye compds. and use in biomol. staining or labeling) 924660-22-0 CAPLUS Poly (oxy-1, 2-ethanediy1), o=[3-[[2-[[3-[2-[2-[2-[3-[2-amino-7-[3-0-(azidomethy1)-2-deoxy-5-0-(hydroxy[[hydroxy (ghosphonoxy) phosphiny1]]oxy]phosphiny1]-P-D-erythro-pentofuranosy1]-4, 7-dinydro-4-oxo-3H-pyrrolo[2, 3-d]pyrimidin-5-y1]-2-propyn-1-y1_amino]-2-oxocothoxyl ethoxy]-2-azidoethoxy|benzoy1|amino]ethoxy1-3-axocorporty1]-0-[2-[[4-[[2-[3,6-bis [ethylamino]-4,5-disilfoxanthylium-9-y1]benzoy1]methylamino]-1-oxobuty1]amino]ethoxy]-, inner salt (CA INDEX NAME)

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 121-44-8 CMF C6 H15 N

Et Et-N-Et

968868-84-3 CAPLUS
Poly(oxy-1, 2-ethanediyl), \(\alpha - [3-[[2-[[3-[2-azido-2-[2-(azboxmethoxy]ethoxy]ethoxy]ethoxy]henzoyl]amino]ethyl]amino]-3-oxopropyl]\(\alpha - [2-[[4-[[2-[3,6-bis(ethylamino]-4,5-disulfoxanthylium-9-yl]benzoyl]methylamino]-1-oxobutyl]amino]ethoxy]-, inner salt, compd. with
N,N-diethylethanamine (1:1) (CA_INDEX_RAME)

CM 1

CRN 924660-21-9 CMF (C2 H4 0)n C49 H59 N9 017 S2 CCI PMS

PAGE 1-B

$$- \text{CH}_2 - \text{NH} - \text{C} - \text{(CH}_2) \ 3 - \text{N} - \dots - \text{CH}_2 -$$

E+NH-

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 1-C

CM 1

CRN 924660-20-8 CMF (C2 H4 0)n C34 H40 N4 012 S2 CCI PMS

PAGE 1-A

EtNH

L7 ANSWER 7 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-B

CM 2

Et-N-Et

L7 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

● C1=

1001586-87-3DP, deprotected, reaction products with mannopyranoside azide RL: PRP (Properties): SPN (Synthetic preparation): PREP (Preparation) (site-directed conjugation of "Clicked" glycoplymers to form glycoprotein mimics and binding to mammalian lectin and induction of immunol. function) (1001586-87-3 CAPUIS Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]propyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1), polymer with 3-(trimethylsilyl)-2-propyn-1-yl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

ANSWER 8 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:1315911 CAPLUS 148:145079 Site-Directed Conjugation of "Clicked" Glycopolymers To Form Glycoprotein Mimics: Binding to Mammalian Lectin and Induction of Immunological Function

Source of the American (State of State of State

Absolute stereochemistry.

L7 ANSWER 8 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 214268-06-1 CMF C10 H16 02 Si

1001586-84-0P 1001586-87-9P RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant of reagent) glycopotesin mimics and binding to mammalian lectin and induction of immunol. function; and binding to mammalian lectin and induction of immunol. function of CAPLUS (PREPARADED); APPLICATION (

CM 1

Absolute stereochemistry.

CM 2

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

1001586-87-3 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxylproxyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (I:1), polymer with 3-(trimethylsilyl)-2-propyn-1-yl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

● c1=

CM 2

CRN 214268-06-1 CMF C10 H16 02 Si

THERE ARE 111 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 111

L7 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● C1-

946530-87-6P
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (thodamine compds. with good heat and light resistance) 946530-87-6 (APLUS Xanthylium, 3,6-bis[(2,6-dimethylphenyl)amino]-9-[2-[(diphenylamino)carbonyl]phenyl]-, (T-4)-bis[3,5-bis[1,1-dimethylethyl]-2-(hydroxy-x0)benzoato(2-)-x0]borate(1-) (1:1) (CA INDEX NAME)

CM 1

CRN 946530-85-4 CMF C48 H40 N3 02

CM2

11/10/2008

L7 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:988247 CAPLUS
N 147:279280
TI Rhodamine compounds with excellent heat and light resistance
N Hata, Shinichiro
PA Yamada Chemical Co., Ltd., Japan
S Jpn. Kokai Tokkyo Koho, 8pp.
CODEN: IXXXAF
T Patent
LA Japanese
FAN.CNI 1
PATENT NO. KIND DATE APPLICATION NO. DATE PI JP 2007211226 A 20070823 PRAI JP 2006-61811 20060209 OS CASREACT 147:279280; MARPAT 147:279280 GI JP 2006-61811 20060209

Title compds. I (RI, R2 = C6-24 aryl, which may be substituted by Me, Bt, Pr. Me2CH, Bu, iso-Bu, sec-Bu, tert-Bu, pentyl, hexyl, and/or halo; R3 = H, Me, Bt, Pr. Me2CH, Bu, iso-Bu, sec-Bu, tert-Bu, pentyl, hexyl, halo; X = counterion), useful for optical filters, are prepared Thus, adding 11 g POCI3 dropwise to a mixture of 3.6-di(2.6-xylyl)rhodamine 8.92, Ph2Ni 3.77, ES3N 19.5, and PhMe 145 g, heating to 85° for 3 h under stirring, halo; X cooling, washing, dehydrating, adding 130 g hexane to the resulting organic phase, stirring for 12 h, filtering, and drying gave 94.48 I (RI, R2 = H); R3 = H; X = C1: II). Then, 7 mg II and 1 g FMMA were dissolved in a mixture solvent, anylied on a PET film, and chied to form a coating showing retention of min. transmission intensity in a wavelength region of 545-555 mm of 96% after 144 h under 20,000 lx light.

946530-84-SP
RI.: MF (Industrial manufacture); PRP (Properties); RCT (Reactant); TBM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); ISBS (Uses)
(Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); ISBS (LS)

Action (S)

946530-84-SP
Action (S)

10 (S)

11 (S)

12 (S)

13 (S)

14 (S)

15 (S)

16 (S)

17 (S)

18 (S) AB

L7 ANSWER 9 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

ΑU

ANSWER 10 OF 28 CAPLUS COPYRIGHT 2008 ACS on SIN 2007:884862 CAPLUS 148:853228 (Clicked glycoprotein mimics as multivalent displays for lectins and cells recognition (Mantovani, Gluseppe: Tao, Lei: Mitchell, Daniel A.: Haddleton, David M. Department of Chemistry, University of Warwick, Coventry, CV4 7AL, UK PMSE Preprints (2007), 97, 190-191 (CDEN: PPMSA): ISSN: 1550-6703 American Chemical Society Journal; (computer optical disk) English The preparation and characterization of "clickable" glycoconjugate with a function to mimic multivalent displays for lectins and cells recognition are described. are described. 1001586-84-0D, maleimide-terminated 1023278-29-6D,

1001586-84-00, maleimide-terminated 1032378-29-60, isoindoledione-terminated insoindoledione-terminated RI: FMU (Formation, unclassified); FORM (Formation, nonpreparative) ("Cilcked" glycoprotein mimics as multivalent displays for lectins and cells recognition) 1001586-84-0 CAPLUS ("D-Mannopyranoside, 2-[4-[[(2-methyl-1-oxo-2-propen-1-y1)oxy]methyl-1]-H1-1, 2, 3-triazol-1-y1]ethyl, polymer with 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-y1)oxy]methyl-1-piperazinyl]carbonyl]phenyl]xanthylium chloride (1:1) (CA INDEX NAME)

CM 1

Absolute stereochemistry.

CM 2

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:744930 CAPLUS 147:353098

147:353098
Energy and electron transfer in enhanced two-photon-absorbing systems with triblet cores
Finikova, Olga S.; Troxler, Thomas; Senes, Alessandro; DeGrado, William
F.; Blochstrasser, Robin M.; Vinogradov, Sergei A.
Departments of Biochemistry and Biophysics and Chemistry, University of Pennsylvania, Philadelphia, PA, 19104, USA
Journal of Physical Chemistry A (2007), 111(30), 6977-6990
American Chemical Society
Journal English

Journal of Physical Chemistry A (2007), 111(30), 6977-6990
CODEN: JPCAPH; ISSN: 1988-6599
American Chemical Society
Journal
English
Enhanced two-photon-absorbing (2PA) systems with triplet cores are
currently under scrutiny for several biomedical applications, including
photodynamic therapy (PT) and two-photon microscopy of oxygen. The
performance of so far developed mols., however, is substantially below
expected. In this study we take a detailed look at the processes
occurring in these systems and propose ways to improve their performance.
We focus on the interchromophore distance tuning as a means for
orbinization of two-photon sensors for oxygen. In these constructs,
energy transfer from several 2PA chromophores is used to enhance the
effective 2PA cross section of phosphorescent metalloporphyrins. Previous
studies have indicated that intranol. electron transfer (ET) can act as an
effective Quencher of phosphorescence, decreasing the overall sensor
efficiency. We studied the interplay between 2PA, energy transfer, reefficiency, We studied the interplay between 2PA, energy transfer, reefficiency, We studied the interplay between 2PA energy transfer, reefficiency, We studied the interplay between 2PA energy transfer, reefficiency, We studied the interplay between 2PA energy transfer, reefficiency, We studied to regular portphyrins (2PC values typically 1-2
CMO. Relatively large 2PA cross sections of fhodamines (about 200 GM in
800-850 mn range) and their high blotostabilities make them good
candidates as 2PA antennae. Fluorescence of Rhodamine B (Afl = 590
mm, \$\Phi 1 = 0.5\$ in Ext0H overlaps with the Q-band of phosphorescent
PtTBP (Aabs = 615 mm, e= 98 000 Mml cm-1, \$\Phi\$, apprx.

O.1), suggesting that a significant amplification of the 2PA-induced
phosphorescence via fluorescence resonance energy transfer (FRED) might
occur. However, most of the excitation energy in RhB-PtTBP assemblies is
consumed in several intramol. ET processes. By installing rigid
nonconducing decaproline spacers (Froil) bet

Absolute stereochemistry

L7 ANSWER 10 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

$$\begin{array}{c} \text{H2C o} \\ \text{Me-C-O-O-(CH2)} \\ \text{Et}_2 \\ \text{N-NEt}_2 \end{array}$$

• c1-

1023278-29-6 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]popyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1), polymer
with 2-propyn-1-yl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

● C1-

2

CRN 13861-22-8 CMF C7 H8 02

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

 $\begin{array}{lll} 948306-81-8 & CAPLUS \\ Xanthylium, & 9-[2-[[4-[(2S)-4-carboxy-2-[[(9H-fluoren-9-ylnethoxy)-arbonyl]amino]-1-oxobutyl]-1-piperazinyl]carbonyl]phenyl]-3, 6-bis(diethylamino)- & (CA INDEX NAME) \\ \end{array}$

Absolute stereochemistry.

948306-82-9 CAPLUS
Xanthylium, 3,6-bis (diethylamino)-9-[2-[[4-(L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-proly1-L-glutaminy1)-1-piperaziny1]carbony1]pheny1]- (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

948513-58-4 CAPLUS
Platinum(1+), [3,6-bis(diethylamino)-9-[2-[[4-[4-(13,20,27-triphenyl-29H,31H-tetrabenzo[b,g,l,d]porphin-6-ylMK29,NS0,MS3,MS2)Benzoyl]-1piperazinyl]carbonyl]phenyl]xanthyliumto(2-)]-, (SP-4-2)- (CA INDEX NAME)

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) PAGE 1-A

PAGE 1-B

948313-60-8 CAPLUS
Platinum(1+), [3,6-bis(diethylamino)-9-[2-[[4-[N-[4-(13,20,27-triphenyl-29H,31H-tetrabenzo[b,g,1,q]porphin-6-y]*NC9,NS0,NS0,NS0,NS02benzoyl]--prolyl-1-pr

11/10/2008

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A

PAGE 1-B

_NEt2

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

L7 ANSWER 11 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 3-A

THERE ARE 192 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 192

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) PAGE 1-B

PAGE 2-B

947264-37-1 CAPLUS L-Lysinamide, N-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-yl]benzovl]methylamino]-1-oxobutyl]-L-e-glutamyl-L-valyl-L-brolevyl-L-norlevyl-N-[3-[2-[2-[3-dimethoxy-4-[2-(4-nitrophenyl)diazenyl]phonyl]-M6-[[2-[[4-[2-[3,5-dimethoxy-4-[2-(4-nitrophenyl)diazenyl]phonyl]]-M6-[[2-[[4-[2,5-dimethoxy-4-[2-(4-NDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

11/10/2008

L7 AN DN TI

ΑU

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:736390 CAPLUS 147:501456 Solid phase synthesis of dual labeled peptides: development of cell permeable calpain specific substrates Polster, Brian M.: Arze, Rafael; Lyttle, Matthew H.: Nicholls, David G.: Hudson, Derek Biosearch Technologies Inc, Nowato, CA, 94949, USA International Journal of Peptide Research and Therapeutics (2007), 13(1-2), 88-91 (2008). IFRC: ISSN: 1573-3149 (2008). IFRC: ISSN: 1573-3149 (2008). IFRC: ISSN: 1573-3149 (2008). IFRC: ISSN: 1573-3149 (2008). If the study led to cell permeable selections, with optimized specificity and effectiveness for the target enzyme, and improved stability to non-specific degrading enzymes. 947264-30-0 047264-37-9 147264-39-2 947264-30-6 047264-40-6 (2008). If the study led to cell permeable calpain specific substrates (solid phase synthesis of dual labeled peptides and development of cell permeable calpain specific substrates) (solid phase synthesis of dual labeled peptides and development of cell permeable calpain specific substrates) (47264-36-6 CAPLUS (Solid phase synthesis of dual labeled peptides and development of cell permeable calpain specific substrates) (47264-36-6 CAPLUS (4726-36-6 CAPLUS (4726-36-6

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

PAGE 1-C

947264-38-2 CAPLUS L-Lysinamide, N-[4-[(2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-v]]benzoyl]methylamino]-1-oxobutyl]-L-valyl-L-valyl-L-threonyl-L-alanyl-M-erglutamyl-1-alanyl-M-erg[(2-[4+[2-[2,5-dimethoxy-4-[2-(4-nitrobenyl)]diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxy]carbonyl]-(CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN Double bond geometry unknown.

PAGE 1-A

PAGE 1-B

$$\begin{array}{c|c} & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array} \begin{array}{c} & & & \\ & & \\ & & \\ & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c} & & \\ & \\ \end{array} \begin{array}{c} & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ \end{array} \begin{array}{c} & & \\ & & \\ \end{array} \begin{array}{c} & \\ \end{array} \begin{array}{c} & & \\ \end{array} \begin{array}{c}$$

PAGE 1-C

947264-39-3 CAPLUS L-Lysinamide, N-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) PAGE 1-C

 $\begin{array}{lll} 947264-40-6 & \text{CAPLUS} \\ \text{L-Lysinamide, } & 1-[4-[[2-[3,6-bis(ethylanino]-2,7-dimethylxanthylium-9-yi] henzoyi] methylanino]-1-oxobutyl]-L-prolyl-L-leucyl-L-phenylalanyl-L-alanyl-L-a-glutamyl-L-arginyl-N6-[[2-[[4-[2-[2,5-dimethoxy-4-[2-(4-nitrophenyl-diazenyl]phenyl]diazenyl]phenyl]-ethylanino]ethoxy[carbonyl]-(CA-RDEX-NME) \\ \end{array}$

Absolute stereochemistry. Double bond geometry unknown.

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) y]] benzoyl] methyl amino] -1-oxobutyl]-L-valyl-L-valyl-L-glutaminyl-L-alanylglyvg'l-L-icoleucyl-N-[5-[2-[2-(3-aminopropoxy) ethoxy] ethoxy] propyl]-N6-[[2-[[4-[2-[2,5-dimethoxy-4-[2-(4-nitrobenyl)]diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxy]carbonyl]-(CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) PAGE 1-B

PAGE 1-C

947264-41-7 947264-42-8 947264-43-9
947264-44-0 947264-45-1 947264-46-2
947264-47-3 947264-48-1
947264-47-3 947264-48-4
RL: BCP (Biochemical process); BSU (Biological study, unclassified); FMU (Formation, unclassified); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)
(solid phase synthesis of dual labeled peptides and development of cell permeable calpain specific substrates)
947264-41-7 (APLUS
L-Lysinamide, 1-[4-[2-[3.6-bis(ethylamino)-2,7-dimethylxanthylium-9-yllbenzoyl]mthylamino]-1-oxobuty]-L-proly1-L-leucy1-L-phenylalanyl-L-alamyl-L-arginyl-1-proly1-No-[2-[4-[2-[2,5-dimethoxy-4-[2-(4-ittophenyl)diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxylcarbonyl] (CA INDEX NAME) IT

Absolute stereochemistry. Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

947264-43-9 CAPLUS L-Lysinamide, 1-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-vl]benzoyl]methylamino]-1-oxobutyl]-L-prolyl-L-leucyl-L-leucyl-L-alanyl-L-e-glutanyl-L-arginyl-L-prolyl-M6-[[2-[[4-[2-[2,5-dimethoxy-4-[2-(4-nitrobhenyl)]diazenyl]phenyl]phenyl]phenyl]ethylamino]ethoxy]carbonyl]- (CA :NDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-C

 $\begin{array}{lll} 947264-42-8 & \text{CAPLUS} \\ \text{L-Lysinamide, } & 1-[4-[[2-[3,6-bis(ethylanino]-2,7-dimethylxanthylium-9-yil] enzoyilpenzoyilpenzoyilpentylamino]-1-oxobutyl]-1-prolyl-1-[eucylg]ycyl-1-alamyl-1-arginyl-1-prolyl-N6-[[2-[4-[2-[2,5-dimethoxy-4-[2-(4-nitrobhenyl)diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxylcarbonyl]-(CA_ROEK_NMME) \end{array}$

Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 1-C

RN 947264-44-0 CAPLUS CN L-Lysinamide, 1-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) vilbenzoyl]methylamino]-1-oxobutyl]-L-prolyl-L-leucyl-L-valyl-L-alanyl-L-orglutamyl-L-arginyl-l-prolyl-No-[12-[4[-2]-2,5-dimethoxy-4-[2-(4-nitrophenyl)diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxylcarbonyl]-(CA NDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

N 947264-46-2 CAPLUS (N L-Lysinamide, N2-acetyl-N6-[4-[[2-[3, 6-bis(ethylamino)-2, 7-dinethylamino]-1-oxobutyl]-L-lysyl-L-prolyl-L-leucyl-L-leucyl-L-alanyl-L-a-glutamyl-L-arginyl-L-prolyl-N6-[[2-[[4-[2-[5, 4-dinethyx-4-[2-(4-nitrophenyl)diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxyl-arginyl-(CA INDEX NAME)

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continue

PAGE 1-C

RN 947264-45-1 CAPLUS
CN L-Lysinamide, 1-[6-[[[1-[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-yl]benzoyl]-4-piperidinyl]oxylcarbonyl]amino]-1-oxohexyl]-1-prolyl-1-leucyl-1-alanyl-1-a-glutanyl-1-arginyl-1-prolyl-Nb-[[2-[4-[2-[2,5-dimethoxy-4-[2-(4-nitrobhenyl)diazenyl]phenyl]phenyl]phenyl]phenyl]diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxy]carbonyl]-(CA NDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) Absolute stereochemistry.

Double bond geometry unknown.

PAGE 1-C

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 947264-47-3 CAPLUS L-Lysinamide, 1-[[[1-[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-yi]benzoyl]-4-piperidinyl]oxy]carbonyl]-L-prolyl-L-leucyl-L-leucyl-L-alanyl-L-arglutanyl-L-arginyl-L-prolyl-NG-[[2-[[4-[2-[2,5-dimethoxy-4-[2-(4-nitrobhenyl)diazenyl]phenyl]diazenyl]phenyl]ethylamino]ethoxy]carbonyl]- (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

PAGE 1-A

PAGE 1-B (CH2) 3 .NH2

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

Absolute stereochemistry. Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-C

Absolute stereochemistry. Double bond geometry unknown.

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 1-C

 $\begin{array}{lll} 947264-50-8 & CAPLUS \\ L-Argininamide, & N-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9+yl]benzorl] nethylamino]-1-oxobutyl]-L-o-glutamyl-L-valyl-L-tyrosylglycyl-L-norleucyl-N-orleucyl-N-6-[[2-[14-[2-[2,5-dimethoxy-4-[2-(4-nitrophenyl)diazenyl]phenyl]benyl[benyl]benyl]benyl[benyl]be$

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-B

PAGE 1-C

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

 $\begin{array}{lll} 947264-52-0 & \text{CAPLUS} \\ L-\text{Argininanide}, & N-[4-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-yl]benzoyl]methylamino]-1-oxobutyl]-L-valyl-L-glutaminyl-L-alanylglycyl-L-isoleucyl-NG-[[2-[[4-[2-[2,5-dimethoxy-4-[2-(4-ntrophenyl)diazenyl]benyl]diazenyl]phenyl]benyllethylamino]ethoxy]carbonyl]-L-lysyl-D-alanyl- & (CA INDEX NAME) \\ \end{array}$

Absolute stereochemistry. Double bond geometry unknown.

PAGE 1-B

ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) 947264-51-9 CAPLUS LARgininamide, N2-acetyl-N6-[[2-[[2-[3,6-bis(ethylamino)-2,7-dimethylxanthylium-9-yl]benzoyl]methylamino]ethoxylcarbonyl]-L-lysyl-L-acylutanyl-L-valyl-L-tvrosylelycyl-L-norleucyl-L-norleucyl-N6-[[2-[4,5-dimethoxy-4-[2-(4-ntrophenyl)diazenyl]phenyl]diazenyl]phenyldiazenylphen

PAGE 1-B

L7 ANSWER 12 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:198977 CAPLUS
DN 146:229558
T1 Preparation and quenching effect of fluorescent labeled dye-containing modified nucleosides and nucleotides and uses thereof
Liu, Xiaohai; Milton, John
PA Solexa Limited, UK
SO PCT Int. Appl., 51pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE W0 2007020457 W0 2007020457 20060818 AL, CR, GM, LA, MY, SD, US, BG, LT, CI, MD, CH, GD, KP, MN, RS, TZ, HU, IE, BF, BJ, BW, GH, AZ, BY,

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

PAGE 1-A

PAGE 1-C

924660-19-5
RL: RCT (Reactant): RACT (Reactant or reagent)
(preparation and quenching effect of fluorescent labeled dye-containing modified nucleosides and nucleotides and uses thereof)
924660-19-5 CAPLUS
Xanthylium, 9-[2-[[[4-[2,5-dioxo-1-pyrrolidinyl)oxy]-4-oxobutyl]methylamino]carbonyl]phenyl]-3,6-bis(ethylamino)-4,5-disulfo-,

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN inner salt. (CA INDEX NAME) (Continued)

924660-20-8P 924660-21-9P
RL: RCT (Reactant); SFN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and quenching effect of fluorescent labeled dye-containing modified nucleosides and nucleotides and uses thereof)
924660-20-8 CAPLUS
Poly(oxy-1, 2-ethanediy1), \(\pi^-[2-[[4-[[2-[3,6-bis(ethylamino)-4,5-disulfoxanthylium-9-y1]benzoyl]methylamino]-1-oxobutyl]amino]ethyl-\(\pi^-(2-carboxyethoxy)-, inner salt (CA INDEX NAME)

PAGE 1-A

$${\rm Ho_{2}C-CH_{2}-CH_{2}-0} \\ - {\rm CH_{2}-CH_{2}-0} \\ - {\rm CH_{2}-CH_{2}-0} \\ - {\rm CH_{2}-CH_{2}-NH-0} \\ - {\rm CH_{2}-CH_{2}-NH-$$

E±NH"

PAGE 1-B

924660-21-9 CAPLUS
Poly(oxy-1, 2-ethanediy1), α -[3-[[2-[[3-[2-azido-2-[2-(carboxymethoxy) ethoxy] ethoxy] benzoy1] amino] ethy1] amino] -3-oxopropy1] - α -[2-[[4-[[2-13,6-bis [ethylamino] -4,5-disulfoxanthy1ium-9-y1] benzoy1] methylamino] -1-oxobuty1] amino] ethoxy]-, inner salt (CA INDEX NAME)

L7 ANSWER 13 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

HO2C-CH2-O-CH2-CH2-O-CH-CH2-O.

$$- \text{CH}_2 - \text{CH}_2 - \left[- 0 - \text{CH}_2 - \text{C$$

PAGE 1-B

PAGE 1-C

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:117855 CAPLUS
N 146:189907
II Hiar dye composition for dyeing of keratin fibers comprising an amidoxanthene direct dye
IN Lagrange, Alain
P L 'Oreal, Fr.
SO Fr. Demande, 74pp.
COODN: FRXXBL
DT Patent
LA French
FAN. CNT 1
PATENT NO, KIND DATE APPLICATION NO. DA PARTON NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PI FR 2889064 Al 20070202 FR 2005-52407 20050801

PRAIFR 2006-52407 20050801

OS MARRAT 146:189907 20050801

OS MARRAT 146:189907 20050801

OS MARRAT 146:189907 20050801

A hair dye composition for dyeing of keratinous fibers, in particular of human keratinous fibers and, more particularly hair, contains an anidoxanthene direct dye. A hair dye composition contained

[7-Amino-9-C-diethylearbamoyl-phenyl)-xamthen-3-ylidenel-dimethyl-ammonium hemisulfate 0 0.128, alkyl polyglousoide 3, PEG-8 6, benzyl alc.

4, hydroxyethyl cellulose 0.72, buffer pH = 9 50, and water q.s. 100 g.

17 92185-87-15 (20185-83-3) 92185-84-4

922183-85-2 902183-86-3 902183-88-8

922183-90-2 902183-91-3 902183-96-5

922184-04-9 902184-01-8 902184-02-9

922184-04-9 902184-06-3 902184-02-9

922184-10-9 902184-10-9 902184-11-9 902184-12-1

922184-12-2 902184-13-3 902184-10-1

922184-12-2 PRICE OF APPLIES (DES)

(hair dye composition for dyeing of keratin fibers comprising amidoxanthene direct dye)

RN 922183-77-5 CAPLUS

(N Xanthylium, 3-(diethylamino)-5-(dimethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME) PATENT NO. KIND DATE APPLICATION NO. DATE

922183-79-7 CAPLUS
Xanthylium, 3,5-bis (diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-,
sulfate (2:1) (CA INDEX NAME)

ANSWER 14 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2007:138431 CAPLUS 146:427637. Rhodamine-Based Hg2+-Selective Chemodosimeter in Aqueous Solution: Photoescence OFF-ON: Rhodamine-Based Hg2+-Selective Chemodosimeter in Aqueous Solution: Photoescence OFF-ON: Photo L7 AN DN TI AU CS SO

EtNH NHE+

RE. CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

922183-80-0 CAPLUS Xanthylium, 2-amino-6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-, chloride (l:1) (CA INDEX NAME)

922183-82-2 CAPLUS Xanthylium, 2-amino-9-[2-[(diethylamino)carbonyl]phenyl]-6-(dimethylamino)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922183-81-1 CMF C26 H28 N3 02

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

922183-83-3 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-2-(methylamino)-, chloride (1:1) (CA INDEX NAME)

922183-84-4 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2-(dimethylamino)-, chloride (1:1) (CA INDEX NAME)

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• c1 -

922183-88-8 (APLUS Xanthylium, 9-[2-[(dimethylamino) carbonyl]nhenyl]-6-[ethyl(2-hydroxyethyl) amino]-3-methyl-2-(bhenylamino)-, ("C4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CRN 922183-87-7 CMF C33 H34 N3 O3

CM 2

CRN 15201-05-5 CMF C14 Zn CCI CCS

C1--C1-Zn-C1-C1-

922183-90-2 CAPLUS
Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-3-methyl-2-(phenylamino)-6-(1-pyrrolidinyl)-, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922183-89-9

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

11/10/2008

• c1
•

922183-85-5 CAPLUS Xanthylium, 6-[(2-cyanoethyl)ethylamino]-9-[2-[(dimethylamino)carbonyl]phenyl]-2-(phenylamino)-, chloride (1:1) (CA RUDEX NAME)

$$\begin{array}{c} \text{Me}_2\text{N} - \\ \text{O} + \\ \text{O} + \\ \text{O} + \\ \text{O} + \\ \text{Et} \end{array}$$

● C1-

922183-86-6 CAPLUS Xanthylium, 9-[2-f(diethylamino)carbonyl]phenyl]-6-(ethylmethylamino)-3-methyl-2-(phenylamino)-, chloride (1:1) (CA INDEX NAME)

ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) CMF C33 H32 N3 02

CRN 15201-05-5 CMF C14 Zn CCI CCS

922183-91-3 CAPLUS Benzamide, 2-[7-(diethylamino)-3-(ethylimino)-3H-xanthen-9-yl]-N, N-diethyl-, hydrochloride (1:1) (CA INDEX NAME)

● HC1

922183-93-5 CAPLUS Xanthylium, 6-(diethylamino)-2-(dimethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922183-92-4 CMF C28 H32 N3 02

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

923183-94-6 CAPLUS Xanthylium, 6-(dimethylamino)-9-[2-[(dimethylamino) carbonyl]phenyl]-2-(1-pyrrolidinyl)-, chloride (1:1) (CA INDEX NAME)

● C1-

922183-96-8 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2-(2-oxo-l-pyrtolidinyl)-, sulfate (2:1) (CA INDEX MAME)

CRN 922183-95-7 CMF C32 H36 N3 03

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

922183-99-1 CAPLUS Xanthylium, 6-(ethylmethylamino)-9-[2-[(ethylmethylamino)carbonyl]phenyl]-2-(1-pyrolidinyl)-, chloride (1:1) (CA INDEX NAME)

● C1⁻

922184-01-8 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-6-[ethyl(2-hydroxyethyl)amino]-2-(1-pyrrolidinyl)-, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922184-00-7 CMF C30 H34 N3 03

CM 2

CRN 15201-05-5 CMF C14 Zn CCI CCS

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

922183-98-0 CAPLUS
Xanthylium, 6-[(2-cyanoethyl)ethylamino]-2-(ethylmethylamino)-9-[2[(ethylmethylamino)carbonyl]phenyl]-, sulfate (2:1) (CA INDEX NAME)

CM 1

CM 2

CRN 14808-79-8 CMF 04 S

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

922184-02-9 CAPLUS
11H-[1]Benzopyranc[3,2-b]carbazol-5-ium,
3-(diethylamino)-12-[2-[(dimethylamino)carbonyl]phenyl]-, chloride (1:1)
(CA INDEX NAME)

● C1 -

922184-04-1 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2-(1-pyrrolidinyl)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922184-03-0 CMF C32 H38 N3 02

CM 2

CRN 14808-79-8 CMF 04 S

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

922184-06-3 CAPLUS Xanthylium, 6-[(2-cyanoethyl)ethylamino]-9-[2-[(diethylamino)carbonyl]phenyl]-2-(1-pyrrolidinyl)-(T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922184-05-2 CMF C33 H37 N4 02

CM 2

922184-08-5 CAPLUS
Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-6-[ethyl(2-bydroxyethyl)amino]-2-(ethylpropylamino)-, sulfate (2:1) (CA INDEX NAME)

CRN 922184-07-4 CMF C31 H38 N3 O3

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

922184-11-0 CAPLUS Methanone, [2-[7-(ethylamino)-3-[(2,4,6-trimethylphenyl)imino]-3H-xanthen-9-yl]phenyl]-1-piperidinyl-, hydrochloride (1:1) (CA INDEX NAME)

922184-12-1 CAPLUS
Methanone, [2-[7-(diethylamino)-3-[(2,4,6-trimethylphenyl)imino]-3H-xanthen-9-yl]phenyl]-1-piperidinyl-, hydrochloride (1:1) (CA INDEX NAME)

HC1

922184-13-2 CAPLUS Methanone, [2-[7-[bis(phenylmethy1)amino]-3-[(2,4,6-trimethylpheny1)imino]-3H-xanthen-9-yl]pheny1]-1-piperidiny1-, hydrochloride (1:1) (CA INDEX NAME)

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

922184-10-9 CAPLUS [1]Benzopyrano[2,3-g]quinolin-6-ium, 8-(diethylamino)-11-[2-[(diethylamino)carbony1]pheny1]-1,2,3,4-tetrahydro-1-methyl-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922184-09-6 CMF C32 H38 N3 02

CM 2

CRN 14808-79-8 CMF 04 S

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● HC1

922184-14-3 CAPLUS Methanone, 1-piperidiny1[2-[7-(1-piperidiny1)-3-[(2,4,6-trimethylpheny1)imino]-3H-xanthen-9-yl]pheny1]-, hydrochloride (1:1) (CA DNDEX NAME)

● HC1

922184-15-4 CAPLUS Methanone, [2-[7-(4-morpholiny1)-3-[(2,4,6-trimethylpheny1)imino]-3H-xanthen-9-yl]phenyl]-1-piperidinyl-, hydrochloride (1:1) (CA INDEX NAME)

922184-17-6 CAPLUS
Methanone, [2-[7-(phenylamino)-3-[(2,4,6-trimethylphenyl)imino]-3H-xanthen-9-yl]phenyl]-1-piperidinyl-, hydrochloride (1:1) (CA INDEX NAME)

$$\bigcap_{R} \bigcap_{R} \bigcap_{R$$

HC1

922184-18-7 CAPLUS Benzamide, 2-[7-amino-6-methyl-3-[(2,4,6-trimethylphenyl)imino]-3H-xanthen-9-yl]-N, 0-fimethyl-, hydrochloride (1:1) (CA INDEX NAME)

● HC1

922184-20-1 CAPLUS
Xanthylium, 2,6-bis(diethylamino)-9-[2-(1-piperidinylcarbonyl)phenyl]-,
(T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922184-19-8 CMF C33 H40 N3 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2007:117851 CAPLUS
DN 146:189906
TI Hair dye composition for dyeing of keratin fibers comprising an amidoxanthene direct dye
Lagrange, Alain
FA L Oreal, Fr.
ODEN: FREXEL
DT Patent
LA French
FAN. CNT 1
PATENT NO. KIND DATE APPLICATION NO. DA DATE

• c1 -

922169-01-5 CAPLUS
Xanthylium, 3-[(2-cyanoethyl)ethylamino]-9-[2[(dimethylamino)carbonyl]phenyl]-, sulfate (2:1) (CA INDEX NAME)

11/10/2008

L7 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 15201-05-5 CMF C14 Zn CCI CCS

 $922184-21-2 \quad CAPLUS \\ Xanthyllum, \quad 9-\{2-[bis(2-hydroxyethyl)amino]carbonyl]phenyl]-6-[ethyl(2-hydroxyethyl)amino]-3-methyl-2-(phenylamino)- (CA INDEX NAME)$

RE. CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 1

CRN 922169-00-4 CMF C27 H26 N3 02

CRN 14808-79-8 CMF 04 S

922169-02-6 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2-methyl-, chloride (1:1) (CA INDEX NAME)

• c1-

922169-04-8 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-2-methoxy, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CRN 922169-03-7 CMF C27 H29 N2 03

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued

CM 2

CRN 15201-05-5 CMF C14 Zn

RN 922169-05-9 CAPLUS
CN Xanthylium, 2-chloro-9-[2-[(diethylamino)carbonyl]phenyl]-6(dimethylamino)-, chloride (1:1) (CA INDEX NAME)

● C1-

RN 922169-07-1 CAPLUS CN Xanthylium, 2-bromo-9-[2-[(dimethylamino)carbonyl]phenyl]-6-(ethylmethylamino)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922169-06-0 CMF C25 H24 Br N2 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

• C1

RN 922169-10-6 CAPLUS CN Benzamide, N.N-diethyl-2-[3-(ethylimino)-3H-xanthen-9-y1]-, hydrochloride (1:1) (CA INDEX NAME)

● HC1

RN 922169-11-7 CAPLUS (Standard Captus Paranthen Paranth

● HC1

RN 922169-13-9 CAPLUS
CN Xanthylium, 2-cyano-9-[2-[(diethylamino)carbonyl]phenyl]-6-[ethyl(2-hydroxyethyl)amino]-, sulfate (2:1) (salt) (CA INDEX NAME)

CM 1

CRN 922169-12-8

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continue

CM 2

CRN 14808-79-8 CMF 04 S

RN 922169-08-2 CAPLUS
CN Xanthylium, 3-chloro-9-[2-[(diethylamino)carbonyl]phenyl]-6(dimethylamino)-2-methyl-, chloride (1:1) (CA INDEX NAME)

● C1-

RN 922169-09-3 CAPLUS CN Xanthylium, 6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-2-nitro-, chloride (1:1) (CA INDEX NAME)

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM

CRN 14808-79-8 CMF 04 S

RN 922169-14-0 CAPLUS
(N Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-6-(ethylmethylamino)-2(methoxycarbonyl)-, chloride (1:1) (CA INDEX NAME)

● C1

RN 922169-16-2 CAPLUS
Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2(ethoxycarbonyl)-, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922169-15-1 CMF C31 H35 N2 04 L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

922169-17-3 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-2-[(dimethylamino)carbonyl]-, chloride (1:1) (CA INDEX NAME)

● C1-

922169-19-5 CAPLUS Xanthylium, 6-[(2-chloroethyl)ethylamino]-2-cyano-9-[2-[(diethylamino)carbonyl]phenyl]-, sulfate (2:1) (CA INDEX NAME)

CRN 922169-18-4 CMF C29 H29 C1 N3 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

922169-22-0 CAPLUS Xanthyllum, 2-[(diethylamino)carbonyl]-6-(dimethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

• c1-

922169-24-2 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-2-[(ethylamino)carbonyl]-, sulfate (2:1) (CA INDEX NAME)

CRN 922169-23-1 CMF C29 H32 N3 03

CRN 14808-79-8 CMF 04 S

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

$$\begin{array}{c} \operatorname{Bt}_2\mathrm{N-C} \\ \operatorname{NC} \\ \operatorname{O}_+ \\ \end{array} \\ \begin{array}{c} \operatorname{N-CH}_2-\operatorname{CH}_2\mathrm{C1} \\ \operatorname{Et} \end{array}$$

CM 2

CRN 14808-79-8 CMF 04 S

922169-21-9 CAPLUS Xanthylium, 6-(diethylamino)-9-[2-[(dimethylamino)carbonyl]phenyl]-2-[(methylamino)carbonyl]-, sulfate (2:1) (CA INDEX NAME)

CM 1

CM

CRN 14808-79-8 CMF 04 S

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

922169-25-3 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-2-[(dimethylamino)sulfonyl]-6-[ethyl(2-hydroxyethyl)amino]-, chloride (1:1) (CA INDEX AMME)

$$\begin{array}{c} \text{Me}_{2}\text{N} - \\ \text{Ho-CH}_{2}\text{-CH}_{2} - \\ \text{Et} \end{array}$$

● C1-

922169-26-4 CAPLUS Benzo[c]xanthylium, 10-[(2-cyanoethyl)ethylamino]-7-[2-[(diethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

● C1-

922169-28-6 CAPLUS Xanthylium, 2-chloro-6-(diethylamino)-9-[2-[(diethylamino)carbonyl]phenyl]-3-methyl-, acetate (1:1) (CA INDEX NAME)

CRN 922169-27-5 CMF C29 H32 C1 N2 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 71-50-1 CMF C2 H3 02

922169-29-7 CAPLUS Benzo[c]xanthylium, 10-(diethylamino)-7-[2-[(diethylamino)carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

● C1-

922169-31-1 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-3-(1-pyrrolidinyl)-, sulfate (2:1) (CA INDEX NAME)

CRN 922169-30-0 CMF C26 H25 N2 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● C1 =

922169-35-5 CAPLUS Benzo[c]xanthylium, 7-[2-[(dimethylamino)carbonyl]phenyl]-10-(4-morpholinyl)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CM 2

CRN 14808-79-8 CMF 04 S

922169-37-7 CAPLUS Xanthylium, 9-[2-[(diethylamino)carbonyl]phenyl]-2-methyl-6-(1-piperidinyl)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 922169-36-6 CMF C30 H33 N2 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 2

CRN 14808-79-8 CMF 04 S

922169-32-2 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-2-methoxy-6-(1-pyrrolidinyl)-, chloride (1:1) (CA INDEX NAME)

● C1-

922169-33-3 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-2-(methoxycarbonyl)-6-(1-pyrrolidinyl)-, chloride (1:1) (CA INDEX NAME)

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 14808-79-8 CMF 04 S

922169-39-9 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-2-(ethoxycarbonyl)-6-(1-piperidinyl)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CRN 14808-79-8 CMF 04 S

922169-41-3 CAPLUS Xanthylium, 2-cyano-9-[2-[(dimethylamino)carbonyl]phenyl]-6-(1-

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) pyrrolidinyl)-, (T-4)-tetrachlorozincate(2-) (2:1) (CA INDEX NAME)

CM 1

CRN 922169-40-2 CMF C27 H24 N3 O2

CM 2

CRN 15201-05-5 CMF C14 Zn CCI CCS

922169-43-5 CAPLUS Benzo[c]xanthylium, 7-[2-[(dimethylamino)carbonyl]phenyl]-10-(1-piperidinyl)-, sulfate (2:1) (CA INDEX NAME)

CM 1

CM

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

● C1 =

922169-48-0 CAPLUS Xanthylium, 9-[2-[(diethylamino)carbonyl]phenyl]-2,4-dimethyl-6-(methylphenylamino)-, acetate (1:1) (CA INDEX NAME)

CM 1

CM 2

CRN 71-50-1 CMF C2 H3 02

922169-50-4 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-6-[(2,6-dimethylphenyl)methylamino]-2,4-dimethyl-, acetate (1:1) (CA INDEX NAME)

CM 1

CRN 922169-49-1 CMF C33 H33 N2 02

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) CRN 14808-79-8 CMF 04 S

922169-45-7 CAPLUS
Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-2[(dimethylamino)sulfonyl]-6-(4-morpholinyl)-, sulfate (2:1) (CA INDEX NAME) RN CN

CM 1

CRN 922169-44-6 CMF C28 H30 N3 05 S

CM 2

CRN 14808-79-8 CMF 04 S

922169-46-8 CAPLUS Xanthylium, 9-[2-[[bis(2-hydroxyethyl)amino]carbonyl]phenyl]-3-(diethylamino)-, chloride (1:1) (CA INDEX NAME)

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 71-50-1 CMF C2 H3 02

922169-52-6 CAPLUS Xanthylium, 9-[2-f(dimethylamino)carbonyl]phenyl]-6-(ethylphenylamino)-1,3-dimethyl-, acetate (i:1) (CA INDEX NAME)

CM 1

CRN 71-50-1 CMF C2 H3 02

922169-54-8 CAPLUS Xanthylium, 9-[2-[(dimethylamino)carbonyl]phenyl]-1,3-dimethyl-6-(phenylpropylamino)-, acetate (1:1) (CA INDEX NAME)

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

CM 1

CRN 922169-53-7 CMF C33 H33 N2 02

CM 2

CRN 71-50-1 CMF C2 H3 02

922169-56-0 CAPLUS
Xanthylium, 6-[(4-chlorophenyl)methylamino]-9-[2[(dimethylamino)carbonyl]phenyl]-1, 3-dimethyl-, acetate (1:1) (CA INDEX NAME)

CM 1

CRN 922169-55-9 CMF C31 H28 C1 N2 02

CM 2

CRN 71-50-1

L7 AN DN TI

ΑU

ANSWER 17 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2006:1208551 CAPLUS 146:223804 146:223804 1500.

Nicolas, Julien; San Miguel, Veronica; Mantovani, Giuseppe; Haddleton, David M. Department of Chemistry, University of Warwick, Coventry, CV4 7AL, UK Chemical Communications (Cambridge, United Kingdom) (2006), (45), 4697-4699 (2008); ISSN: 1359-7345 Royal Society of Chemistry Journal English

Journal
Bnglish
CASREACT 146:223904
BKA and lysozyme have been transformed into macroinitiators for living
radical polymerization and used to produce well-defined bioconjugates which can
be fluorescently labeled providing a versatile stratery for the preparation of
bioconjugates which is complementary to traditional PBGylation.
904276-620
BL: RCT (Reactant): RACT (Reactant or reagent)
(Rhodamine B alc: ifuorescently tagged polymer bioconjugates from
protein derived macroinitiators)
904276-620 CAPLIS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-(3-hydroxypropyl)-1piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

$$\mathrm{HO-(CH_2)} \underbrace{\begin{array}{c} 0 \\ \\ \mathrm{Et}_2 \mathrm{N} \end{array}}_{\mathrm{O}_+} \underbrace{\begin{array}{c} 0 \\ \\ \mathrm{O}_+ \end{array}}_{\mathrm{NEt}_2} \mathrm{NEt}_2$$

● C1-

918941-66-9DP, lysozyme and serum albumin conjugates
918941-68-1DP, serum albumin conjugates
RL: SRU (Biological use, unclassified): SFN (Synthetic preparation); BIOL
(Biological study): PRFP (Preparation): USES (Uses)
(fluorescently tagged polymer bioconjugates from protein derived macroinitiators)
918941-66-9 (APLUS
Xanthylium, S, 6-bis (diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxylpropyl]-1-piperazinyl[arbonyl]phenyl]-, chloride (I:1), polymer with a-[2-[(2-methyl-1-oxo-2-propen-1-yl)oxyl-thyl]-o-hydroxypoly(oxy-1,2-ethanediyl) (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

L7 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 2

L7 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

$$\begin{array}{c} \text{H}_{2C} \\ \text{Me-C-C-O-} \\ \text{(CH}_{2}) \\ \text{S} \\ \text{Et}_{2} \\ \text{N} \\ \text{O}_{+} \\ \text{NEt}_{2} \\ \end{array}$$

● c1=

CM 2

CRN 25736-86-1 CMF (C2 H4 0)n C4 H6 02 CCI PMS

$$\begin{array}{c|c} \text{H}_2\text{C} & \textbf{0} \\ \text{Me} - \text{C} - \text{C} & \boxed{} & \textbf{0} - \text{CH}_2 - \text{CH}_2 - \boxed{} & \textbf{0} \text{H} \\ \end{array}$$

918941-68-1 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxylproxyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1), bolymer
with 2-(dimethylamino)ethyl 2-methyl-2-propenoate (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

$$\begin{array}{c} \text{H}_{2}\text{C} \quad 0 \\ \text{Me} - \text{C} \quad 0 - \text{(CH}_{2}\text{)} \\ \text{Et}_{2}\text{N} \\ \end{array}$$

● C1=

CM 2

CRN 2867-47-2 CMF C8 H15 N 02

L7 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

$$\begin{array}{c} \mathbf{0} \quad \mathrm{CH_2} \\ \mathrm{Me}_2\mathrm{N-CH_2-CH_2-0-C-C-Me} \end{array}$$

918941-65-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (fluorescently tagged polymer bioconjugates from protein derived macroinitiators)
918941-65-8 CAPLUS
Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-lyyl)oxy]propyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

$$\begin{array}{c} \text{H}_2\text{C} \quad 0 \\ \text{Me} - \text{C} - \text{O} - \text{(CH}_2\text{)} \\ \end{array}$$

● c1-

RE. CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

$$\begin{array}{c} \text{H2C o} \\ \text{Me-} \\ \text{C-} \\ \text{C-} \\ \text{O-} \\ \text{O-} \\ \text{O-} \\ \text{O-} \\ \text{O-} \\ \text{NEt2} \\ \end{array}$$

• c1-

CM 2

CRN 26915-72-0 CMF (C2 H4 0)n C5 H8 02 CCI PMS

936808-40-6 CAPLUS Xanthylium, 3,6-bis(diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxy]rovyl]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1), polymer with oxirane, methyl ether, graft (CA INDEX NAME)

CM 1

CRN 67-56-1 CMF C H4 0

H3C-0H

CM 2

CRN 936803-39-3 CMF (C39 H49 N4 04 . C2 H4 0 . C1)x CCI PMS

CM 3

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

11/10/2008

ΑU

ANSWER 18 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2006:887790 CAPLUS

Pluorescently tagged bioconjugates from living radical polymerization using protein macroinitiators

San Miguel, Veronica: Nicolas, Julien: Mantovani, Giuseppe: Haddleton, David M

Instituto de Ciencia y Tecnologia de Polimeros, CSIC, Madrid, 28006, Spain PMESE Preprints (2006), 98, 1064-1065

CODEN: PPMRAG: ISSN: 1850-6703

American Chemical Society
Journal: (computer optical disk)
English

The conjugation of poly(ethylene glycol) to proteins/pertides, is an efficient strategy for the chemical modification of protein therapeutics. This has given rise to many potential benefits such as enlarging the protein size, reducing the clearance of the drug from the body due to renal excretion, as well as increasing bioavailability and plasma half-lives. The synthesis of fluorescently tagged bioconjugates from living radical polymerization is investigated. The bioconjugates were detected by HPLC with a fluorescent detector, providing a new strategy for in situ observation of delivered compds.

918941-65-8 CAPLUS

Kanthylium, S, 6-bis (diethylamino)-9-[2-[[4-[3-[(2-methyl-l-nox-2-propen-l-yl)oxy]propyl]-l-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

IT

$$\begin{array}{c} \text{H}_2\text{C} \\ \text{Me}-\text{C} \\ \text{C}-\text{O}-\text{(CH}_2)\\ \text{S} \\ \text{Et}_2\text{N} \\ \end{array} \\ \begin{array}{c} \text{O} \\ \text{N} \\ \text{O}+\text{NE}\\ \text{NE} \end{array}$$

● C1⁻

IT 936746-05-SP 936803-40-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(fluorescently tagged bioconjugates from living radical polymerization using protein macroinitiators)
RN 936746-05-3 CAPLUS
(N Xanthylium, S, 6-bis (diethylamino)-9-[2-[[4-[3-[(2-methyl-1-oxo-2-propen-1-yl)oxylptonyl]-1-piperazinyl]carbonyl]ohenyl]-, chloride (1:1), polymer with a-(2-methyl-1-oxo-2-propen-1-yl)-a-methoxypoly(oxy-1,2-ethanediyl), graft (CA INDEX NAME)

CM 1

CRN 918941-65-8 CMF C39 H49 N4 04 . C1

L7 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

$$\begin{array}{c} \text{H2C} \quad 0 \\ \text{Me-C-C-O-} \quad \text{(CH2)} \\ \end{array}$$

● c1=

CM 4

CRN 75-21-8 CMF C2 H4 0

<u>_0</u>

IT

924276-62-0

RI: RCT (Reactant); RACT (Reactant or reagent)
(fluorescently tagged bioconjugates from living radical polymerization using protein macroinitiators)
924276-62-0 CAPLUS
Xanthyllum, 3,6-bis(diethylamino)-9-[2-[[4-(3-hydroxypropyl)-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE. CNT 18

ANSWER 19 0F 28 CAPLUS COPYRIGHT 2008 ACS on STN 2006:873383 CAPLUS 145:434296 N-terminal protein modification through a biomimetic transamination reaction

reaction of the control of the contr ΑU

CS

English CASREACT 145:434296

CASREACT 145:434296
A biomimetic transamination reaction has been developed that employs pyridoxal-0-phosphate to modify the N terminus of proteins and neutides under mild conditions. This technique introduces a uniquely reactive carbonyl group in a single location, thus allowing further elaboration through oxine or hydrazone formation. This modification strategy is also compatible with proteins containing a free cystein residue. PIZ671-72-8F
KE: BUW Giological use, unclassified): RCT (Reactant): SPN (Synthetic preparation): BISC (Uses)
(N-terminal protein modification through biomimetic transamination teaction).

reaction]
912671-72-8 (CAPLUS
Xanthyllum, 9-[2-[[4-[6-(aminoxy)hexyl]-1-piperazinyl]carbonyl]phenyl]-3,6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

● C1 =

877212-89-0 RL: RCT (Reactant); RACT (Reactant or reagent) (N-terminal protein modification through biomimetic transamination

reaction 7877212-89-0 (APLUS Xanthyllum, 3,6-bis(diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

ANSWER 20 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2006:324143 CAPLUS 144:378654

L7 AN DN TI DN 144:378654

IF Fluorescence-conversion phosphor composition and its film with improved durability and light stability
IN Hachiya, Satoshi; Tkukua, Masahiko; Sakaeda, Toru
Idemitsu Kosan Co., Ltd. Japan
D Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JXXXAF

D Patent
LA Japanese
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2006089724 PRAI JP 2004-245068 OS MARPAT 144:378654 GI 20060406 20040825 JP 2005-236479 20050817

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

RUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AWAILABLE VIA OFFLINE PRINT *

The composition which converts blue LED light, etc., to red contains (A) Me methacrylate-methacrylic acid copolymer; (B) phosphors selected from (b)) conwaring colorants I (A = SOZNRSRA, -CHE-CH-GH-GH-F: R1, R2 = C2-10 alky; R3, R4 = C2-8 alky; R3 and R4 may form ring together), (b2) rhodamine colorants II (Y = Bu-t, cyclohexy; R5, R6 = C2-8 alky; X = C1004-, X), and (b3) rhodamine colorants III (Y = Bu-t, cyclohexy; R2 = C047, -NR9R10; R7, R9, R10 = C2-8 alky; R8 = C4-8 alky; X = C1004-, X), and (C5) rhodamine colorants III (Y = Bu-t, cyclohexy; R1, And (C) pentaerythritol triacrylate and/or trimethylolpropane triacrylate.

882006-64-RE. TEM (Technical or engineered material use); USES (Uses) (red-converting phosphor composition for film with improved durability and light stability).

882006-64-CAPLUS Xanthylium, 3-[(cyclohexylmethyl)amino]-6-[(cyclohexylmethyl)hexylamino]-9-[2-[(dibtylamino)carbonyl]henyl]-2-hexyl--, (T-4)-bis[3,5-bis[1,1-dimethylethyl)-2-((hydroxy-K0)benzoato(2-)-K0]borate(1-) (GCI) (CA INDEX NAME)

CM 1

CRN 882006-53-3 CMF C54 H80 N3 02

11/10/2008

L7 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

● C1-

912671-75-1P
RL: SPR (Synthetic preparation); PREP (Preparation)
(N-terminal protein modification through biomimetic transamination reaction)
912671-75-1 (APLUS
Xanthylium, 3,6-bis/Giethylamino)-9-[2-[[4-[6-[[[(1,1-dimethylethoxy)carbonyl]] amino]oxy]hexy]]-1-piperazinyl]carbonyl]phenyl]-, chloride (1:1) (CA INDEX NAME)

$$\begin{array}{c} 0 \\ t-Bu0-C-NH-0-(CH_2) \end{array} \\ \begin{array}{c} N \\ Et_2N \end{array} \\ \begin{array}{c} N \\ O_+ \end{array} \\ \begin{array}{c} NEt_2 \\ NEt_2 \end{array}$$

• C1

RE. CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 20 0F 28 CAPLUS COPYRIGHT 2008 ACS on STN CRN 129954-92-3 CMF C30 H40 B 06 CCT CCS (Continued)

ANSWER 21 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2006:260606 CAPLUS 144:3277304 Fluorescent isotope tags for quantification of proteins Agnew, Brian; Gee, Kyle Richard USA U.S. Pat. Appl. Publ., 28 pp. CODEN: USXXXOO Patent L7 AN DN TI IN PA SO DT Patent LA English FAN. CNT 1 PATENT NO. KIND DATE APPLICATION NO. PΤ US 2005-157467 WO 2005-US21756

DATE PI US 20060063269 A1 20060831 W5 2005-157467 20050620 W0 2006091214 A2 20060831 W0 2005-157467 20050620 W0 2006091214 A2 20060831 W0 2005-1521756 20050620 W1 2005062 A1 20060323 U
A2 20060831 W
A3 20070822
A4, A7, AU, AZ, BA,
CU, CZ, DE, DK, DM,
HR, HU, ID, IL, IN,
ES, LT, LU, LV, MA,
NZ, 0M, PG, PH, PL,
TJ, TM, TN, TR, TT, US 20060063269 W0 2006091214 W0 2006091214 20050620 20050620

Absolute stereochemistry.

L7 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

$$\begin{array}{c} \text{HO} \\ 13 \\ 13 \\ \text{H2} \end{array} \stackrel{\text{O}}{=} \begin{array}{c} 13 \\ 15 \\ \text{H2} \end{array} \stackrel{\text{O}}{=} \begin{array}{c} 13 \\ 13 \\ \text{H2} \end{array}$$

• c1-

880130-33-6 CAPLUS
Xanthylium, 9-[2-carboxy-5-[[(25)-2-[[(2,5-dioxo-1-pyrrolidinyl-2,3,4,5-15C4-1-ISN[carbonyl]]henyl]-3,6-bis(dimethylamino)-, chloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

880130-34-7P 880130-35-8P RL: SPN (Synthetic preparation); PREP (Preparation) (fluorescent isotope tags for quantification of proteins) 880130-34-7 (APLIB. L-Leucine, 1-[3-[3,6-bis(dimethylamino)xanthylium-9-y]]-4-carboxybenzoyl]-L-prolyl-1-\alpha-asspartyl-L-arginyl-L-valyl-L-tyrosyl-L-isoleucyl-L-histidyl-L-prolyl-L-phenylalanyl-L-histidyl-, chloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

• c1 -

880130-31-4 CAPLUS
Xanthylium, 9-[2-carboxy-5-[[(2S)-2-[[(2,5-dioxo-1-pyrrolidinyl]oxy]carbonyl]-1-pyrrolidinyl]carbonyl]phenyl]-3,6-bis(dimethylamino)-, chloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

OUDIOUTSETS CAPLUS Xanthylium, 9-[2-carboxy-5-[[(2S)-2-(carboxy-13C)-1-pyrrolidinyl-2, 3, 4, 5-13C4-1-15N] carbonyl]phenyl]-3, 6-bis(dimethylamino)-, chloride (9CI) (CA NDEX NAME) 880130-32-5 CAPLUS

Absolute stereochemistry.

L7 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

• c1 -

880130-35-8 CAPLUS L-Leucine, 1-[3-[3,6-bis(dimethylamino)xanthylium-0-yl]-4-carboxybenzoyl]-L-prolyl-13C5-15N-L-a-aspartyl-L-arginyl-L-valyl-L-tyrosyl-L-isoleuyl-L-histidyl-L-prolyl-L-phenylalanyl-L-histidyl-, chloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A

• C1 -

PAGE 2-A

ANSWER 22 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) (tyrosine-selective protein alkylation using #-allylpalladium complexes with addn. of fluorescent and hydrophobic groups to form fluorescent proteins and lipoproteins) S77212-876 CAPLUS (Santhylium, 9-[2-[[4-[(GE)-8-(acetyloxy)-6-octen-1-y1]-1-piperazinyl]carbonyl]phenyl]-3.6-bis(diethylamino)-, chloride (1:1) (CA INDEX NAME)

Double bond geometry as shown

i-Bu S CO2H

• c1-

877212-89-0

RI: RCT (Reactant); RACT (Reactant or reagent)
(tyrosine-selective protein alkylation using x-allylpalladium complexes with addition of fluorescent and hydrophobic groups to form fluorescent proteins and lipoproteins)
877212-89-0 (APLUS
Xanthylium, 3.6-bis(diethylamino)-9-[2-(1-piperazinylcarbonyl)phenyl]-, chloride (1:1) (CA INDEX NAME)

● C1=

RE. CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 AN DN TI AU CS

ANSWER 22 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
2006:20851 CAPLUS
144:249858
144:249858
145:249858
151ley, S. David; Francis, Matthew B.
Department of Chemistry, University of California, Berkeley, CA,
94720-1460, USA
Journal of the American Chemical Society (2006), 128(4), 1080-1081
CODEN: JACSATI: ISSN: 0002-7863
American Chemical Society
Journal of Chemical Society
Journal of Chemical Society
Septish
CASEACT 144:249858
A new protein modification reaction has been developed based on a

SO

English

ADM protein modification reaction has been developed based on a ADM protein modification reaction has been developed based on a Paul adding a part of the protein modification reaction because the protein protein support of the protein support

$$\label{eq:h2C} \text{H}_2\text{C} \!\!=\! \text{CH-CH} \!\!=\! \text{CH-(CH}_2) \underbrace{4}_{\text{Bt}_2\text{N}} \underbrace{0}_{\text{+}}_{\text{NBt}_2} \underbrace{N}_{\text{NBt}_2}$$

● C1

877212-87-8P RL: BUW (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2005:1126629 CAPLUS 143:406149

L7 AN DN TI

143:406149
Tripartite conjugates containing a structure which interacts with cell membrane rafts and their use
Braxmeier, Tobias; Friedrichson, Tim; Froehner, Wolfgang; Jennings, Gary; Munick, Michael; Schlechtingen, Georg; Schroeder, Cornelia; Knoelker, Hans-Joachim; Simons, Kai; Zerial, Marino; Kurzchalia, Teymuras Jadolabs G. m. b. H., Germany; Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e. V.; Technische Universitaet Dresden PCT Int. Appl., 157 pp.
Patent
Bralish PA

SO

DT

	CNT 1 PATENT NO.				KIND		DATE			APPLICATION NO.								
ΡΙ	WO	2005 ¥:		99 AG, CO, GH, LK, NO, SY, ZW	AL, CR, GM, LR, NZ,	CU, HR, LS, OM,	CZ, HU, LT, PG,	ID,	AZ, DK, IL, LV, PL,	BA, DM, IN, MA, PT,	WO 2 BB, DZ, IS, MD, RO,	OO5- BG, EC, JP, MG, RU,	EP37 BR, EE, KE, MK, SC,	40 BW, EG, KG, MN, SD,		BZ, FI, KP, MX, SG,	GB, KR, MZ,	CH, GD, KZ, NA, SL,
		RW:	BW, AZ, EE, RO, MR,	GH, BY, ES, SE, NE,	GM, KG, FI, SI,	KE, KZ, FR, SK, TD,	TR,			IE,	AT, IS,		LT,	CH, LU,	MC,	ZM, CZ, NL, GQ,	ZW, DE, PL, GW,	
	AU 2005231622 CA 2562266 EP 1732612			J145	A1 A1 A1	10	20051020 20051020 20061220						20050408 20050408 20050408					
	JP	R: 2007	AT, IS, 5325	IT, 12	LI,	CH, LT, T	LU,	CZ, MC, 2007 2007	DE, NL, 1115	PL,	EE,	ES, RO, 007-	FI, SE, 5067	FR, SI, 37	SK,	GR, TR,	HU, HR	IE,
PRAI	EP US US	2006 2004 2004 2005 2005	-860 -575 -661	7 068P 976P		A P P		2004 2004 2005 2005	0408 0527 0311		11, 2	000	01101	20			0001	
OS AB	MAF The	2005 PAT inv	-BF3 143: enti form	4061 on r at C	49 elat -B-A	es to	o a	comp	ound wh	ere	moie	ty A	/A'	is a	raf	toph	ile,	mc

The invention relates to a compound which comprises a tripartite structure in the format C-B-A or C'-B'-A', where moiety M/A' is a raftophile, moiety B/B' is a linker (with a backbone of at least 8 carbon atoms one or more of the carbon atoms may be replaced by nitrogen, oxygen or sulfur), and moiety C/C is a pharmacophore. Specific medical and pharmaceutical uses of the compds. of the invention are disclosed. Thus, GIU(Rho)-PAHa-Gly-GlU-Al-Al-As-TSL-Al-Al-Al-GlU-PHE-PAH-GLU-PHE-PA

(Therapeutic Use), bith (Diological Study), rmc viepalation, cold (Uses) (tripartite conjugates containing structure which interacts with cell membrane rafts and their use) 867062-91-7 CAPLUS (19P)-cholest-5-en-3-yloxy]acetyl]-L-arginyl-E-larginyl-F-alanyl-5-[4-1/2-13, 6-bis (diethylamino)xanthylium-9-yl]benzyl]-1-piperazinyl-5-cx-6-proxylyl-F-alanylglyeyl-L-eglutamyl-L-valyl-L-asparaginyl-(3S, 4S)-4-amino-3-hydroxy-6-methylheptanoyl-glutamyl-L-valyl-L-asparaginyl-(3S, 4S)-4-amino-3-hydroxy-6-methylheptanoyl-

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN L-valy1-L-alany1-L- α -glutamy1- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued) PAGE 1-B

PAGE 2-B

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 2-B

Absolute stereochemistry.
Double bond geometry as shown.

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

867062-93-9 CAPLUS L- α -Asparagine, 5-[4-[2-[3,6-bis(diethylamino)xanthylium-9-yl]benzoyl]-1-piperazinyl]-5-xoo-1-noivayl-P-alanylglycyl-1- α -glutamyl-1-valyl-1-saparaginyl-(3,5,45)-4-amino-3-hydroxy-6-methylheptanoyl-1-valyl-1-alanyl-1- α -glutamyl-1-phenylalanyl-1-amino-5,6,9,12-tetraoxapentadecan-15-07]-3-[2-[2-(2-aminoethoxy) ethoxy] ethoxyl propanoyl-1-amino-5,6,9,12-tetraoxapentadecan-15-07]-3-[2-[2-(2-aminoethoxy) ethoxy] ethoxyl ethoxyl propanoyl-1-amino-3,6,9,12-tetraoxapentadecan-15-07]-3-[2-(6-3)-1-amino-3,6,9,12-tetraoxapentadecan-15-07]-3-(7-(3,5-6)-cholestan-3-yl) ester (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 867062-94-0 CAPULS
CN Glycinamide, ND-[[(3B,50)-cholestan-3-yloxy]acetyl]-L-arginyl-Larginyl-B-alanyl-5-[-4-[2-]-3,6-bis(diethylamino)xanthylium-9yl]benzoyl]-1-piperazinyl]-5-oxo-L-norvalyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

Me (CH2) 3 CHMe2

(CH2) 5 H R H

(CH2) 5 H R H

(CH2) 5 H R H

RN 867062-96-2 (APLUS CN Cholest-5-en-3-0] (3B)-, (22S)-22-(aminocarbonyl)-25-[4-[2-[3,6-bis (diethylamino) xanthylium-9-yl]benzoyl]-1-piperazinyl]-4, 20, 25-trioxo-8, 11, 14, 17-tetraoxa-5, 21-diazapentacosanoate (9C1) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-D

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-C

$$\sim$$
 (CH2)3 CHMe2

RN 867062-97-8 CAPLUS
CN L-Lysinamide, L-o-glutamyl-L-valyl-L-asparaginyl-(3S, 45)-4-amino-3-hydroxy-6-methylheptanoyl-L-valyl-L-alanyl-L-o-glutamyl-L-phenylalanyl[2-[2-(2-aminoethoxy) ethoxy] ethoxyl ecthoxyl ecthoxyl entoxyl entoxyl entoxyl-ent

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

Et₂N-----

L7 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-E

PAGE 2-B

PAGE 2-

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1004902 CAPLUS
DN 143:262496
II Specific substrates for 06- alkylguanine-DNA alkyltransferase
IN Jaccard, Hughes: Johnsson, Kai: Kindermann, Maik: Sielaff, India Christina
PA EEPFL Eoole Polytechnique Federale De Lausanne, Switz.
DT Litt. Appl., 78 pp.
CODEN: PIXXD2
DT Fatent
LA English
FAR.CNT:
PATENT NO. KIND DATE APPLICATION NO. DATE W0 2005085470 W0 2005085470 A1 A9 20050915 20061005 WO 2005-EP50900 20050301

Double bond geometry as shown

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

1067188-95-7 CAPLUS INDEX NAME NOT YET ASSIGNED

863772-06-9P 863772-14-9P 863772-20-7P RL: ARG (Analytical reagent use); SFN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (specific substrates for 06- alkylguanine-DNA alkyltransferase) 863772-06-9 CAPLUS ANDEN (Analyyluanine-DNA alkyltransferase) 863772-06-9 CAPLUS (Analyyluaning-One) (Application of the control of the control

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A

1067188-77-5 CAPLUS INDEX NAME NOT YET ASSIGNED

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-A

863772-14-9 CAPLUS Xanthylium, 3,6-diamino-9-[2-[[[4-[[[2-amino-8-[3-[[4-[2-[4-(dimethylamino)phenyl]diazev]benzoy1]amino]propy1]-9H-purin-6-y1]oxylmethyl]benzy1]amino]-4-oxobuty1]methylamino]carbony1]pheny1]-4,5-disulfo-, inner salt (CA INDEX NAME)

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-B

863772-20-7 CAPLUS

L-Cysteine, L-tyrosyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-L-arginyl-Denzoyl]methylamino]-1(3, 6-diamino-4, 5-disulfoxanthylium-9-yl)benzoyl]methylamino]-1cxobutyl] amino]methyl]penyl]methyl-H-purin-8-yl]proyl] amino]-2cxoethyl]-2,5-dioxo-3-pyrrolidinyl]-, inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 2-A

863772-22-9 863772-24-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(specific substrates for 06- alkylguanine-DNA alkyltransferase)
863772-22-9 (APLUS
Xanthylium, 3,6-diamino-9-[2-[[[4-[(2,5-dioxo-1-pyrrolidiny1)oxy]-4-oxobuty1]methylamino]carbony1]pheny1]-4,5-disulfo-, inner salt (CA INDEX
NAME)

863772-24-1 CAPLUS
Xanthylium, 3,6-diamino-9-[2-[[[4-[[[2-amino-8-[3-[[2-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-y])acetyl]amino]propyl]-9H-purin-6yl]oxy]methyl]phenyl]methyl]amino]-6-oxobutyl]methylamino]carbonyl]phenyl]4,5-disulfo-, inner salt (GA NDEK NME)

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-A

PAGE 1-C

L7 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PAGE 1-B

IT

863772-19-4P
RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent)
(specific substrates for 06- alkylguanine-DNA alkyltransferase)
883772-19-4: CAPILIS.
883772-19-4: CAPILIS.
8.6-diamino-9-[2-[[[4-[[[4-[[[2-amino-8-[8-[[[1,1-dimethylethoxylcarbonyl]amino]propyl]]-phunin-6-yllowline-fluxine-f

$$\begin{array}{c} \text{Me 0} \\ \text{CH}_2\text{NH-C} - (\text{CH}_2)_3 - \text{N-C} \\ \text{H}_2\text{N} \\ \text{SO}_3\text{H} \\ \text{SO}_3\text{H} \\ \text{SO}_3\text{-} \\ \text{NH} \\ \text{NH}$$

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

JP 2007503581 US 20060246460 PRAI GB 2003-19949 W0 2004-GB3671

IGS 2003-19949 A 2005.0826

WO 2004-GSE671 W 20040826

MARRAT 142:274986

MARRAT 142:274986

MARRAT 142:274986

The present invention relates to methods and materials for detecting or identifying particular nucleic acid sequences in a sample using modified nol. beacons of etectable by surface enhanced Raman spectroscopy (SRKS) (SERKS Beacons) and related materials, processes, and methods of use. The SERKS Beacon is a dual labeled probe with a different dye at each of its two ends. In conventional Beacons a quencher such as DABCU, is used with a dye. In the present invention, one of the dyes is specifically designed such that it is capable of immobilizing the oligonucleotide probe onto an appropriate metal surface. In use, the SERKS Beacon is immobilized in the "closed state" on the metal surface and this has the effect that due to the closeness to the surface of the colored species a SERKS spectrum corresponding to both dyes is detectable. When the complementary sequence hybridizes, the SERKS Beacon opens up and one of the dyes is removed from the surface this causes the SERKS signals to change to show only the dye on the surface this causes the SERKS signals to change to show only the dye offers a massive coding potential for simultaneous multiplexed anal. of DNA/RNA sequences. The method can be used for diagnosis or prognosis of a disease, or for gene expression profiling.

KL: ARG (Analytical reagent use): FRF (Properties): ANST (Analytical study): USES (Uses)

(quencher dye: SERKS beacon dual labeled oligonucleotide probes for nucleic acid sequence identification and diagnostic applications)

Xanthylium, 9-[2-carboxy-4-[(2,5-dihydro-2,5-dioxo-IH-pytrol-1-yl) carbonyl]phenyl]-3,6-bis (dimethylamino)-, inner salt (CA INDEX NAME)

L7 AN DN TI	ANSWER 26 OF 28 (2004:1014394 CAPI 142:7033	LUS		dendrimers and dendro	o derivatives
TN				hi; Takanashi, Kensak	
PA	Kanagawa Academy				•
SO	Jpn. Kokai Tokkyo CODEN: JKXXAF	Koho, 3	9 pp.		
DT	Patent				
LA	Japanese				
FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI PRAI OS	JP 2004331850 JP 2003-130810 MARPAT 142:7033	A	20041125 20030508	JP 2003-130810	20030508

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title method for phenylazomethine dendrimers having imine-linked tree shape mol. structures I are obtained by reacting dendrons II with 4.4 "diaminodiphenylmethane to give imine compos. III, oxidizing to give dendrons IV, repeating reaction of the resulting dendrons with 4.4 "diaminodiphenylmethane and oxidizing to give higher generations, and reacting with amine compds. RI (NH2)m, wherein RI = aromatic ring-containing organic erous; R2 = (substituted)bennyl group: m = 21 integer: and n = 0 or 21 integer. Thus, benzophenone 23.0, 4.4 "diaminodiphenylmethane 10.0, and DABCO 34.0 g were heated in the presence of 8.3 mh. titanium tetrachloride at 90" and reacted at 125" for 24 h to give 9.42 g phenylazomethine dendron, 4.9 g of which was reacted with 0.910 g 4.4 "diaminodiphenylmethane in the presence of DABCO and titanium tetrachloride, oxidized with potassium permanganate to give a third generation dendron, 2.67 g of the resulting dendron was reacted with 0.211 g 4.4 "diaminodiphenylmethane and oxidized to give a fourth generation and selectively retended in the persence of the inclinic dendron solution to solution to

L7 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

RE. CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 26 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

797037-05-9 CAPLUS
Dibenz[b,e]oxinium, 10-[2-[[[bis[4-[[dishenylmethylene]amino]bhenyl]methyl][4-[[bis[4-[[dishenylmethylene]amino]bhenyl]methyl][4-[[bis[4-[dishenylmethylene]amino]bhenyl]methyl]amino]carbonyl]phenyl]-8,7-bis[dichylamino]-, chloride (1:1) (CA INDEX MAME)

$$\begin{array}{c} \text{Ph}_2\text{C} = \text{N} \\ \text{Ph}_2\text{C} = \text{N} \\ \text{OH-Ni} \\ \text{Et}_2\text{N} \\ \text{O+} \\ \text{NEt}_2 \end{array}$$

• c1

ANSWER 27 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2004:568312 CAPLUS 141:90624 Erasable dyes and inks and toners containing them and no decoloring agents lida, Kazuyuki Mitsubishi Paper Mills, Ltd., Japan Jpn. Kokai Tokkyo Koho, 14 pp. CODEN: JKXXAF Patent

DT Patent LA Japanese FAN. CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE 20040715 20021219 JP 2002-368720 20021219

PI JP 2004196999 PRAI JP 2002-368720 OS MARPAT 141:90624

714293-56-8
RL: TEM (Technical or engineered material use); USES (Uses)
(dye: erasable dyes for inks and toners containing no decoloring agents for
recycling recording paper or plastic films)
714293-56-8 CAPLUS
Carbamic acid, [2-[6-(diethylamino)-8-methyl-2-(phenylamino)-981-xanthen-9yl]benzoyl] (4-methylphenyl)-, 1,1-dimethylethyl ester, monohydrochloride
(9CI) (CA INDEX NAME)

L7 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

Fluorescent dyes (mostly rhodamine, thiorhodamine, selenorhodamine, rhodol, carbopyronine, triphenylmethane and amidopyrillum derivs.) with improved water solubility, in which lactone or lactam group group is modified with carboxamide-group, such as I (including multichromophore-containing mols., such as bichromophoric II) are useful for anal. application in vivo and in vitro, in labeling and diagnostic systems, in immunol. and nucleic acid hybridization method, and in petide, polypertide, nucleic acid and its analog, nucleoside, nucleotide and hapten conjugates. These dyes are prepared by reacting lactone or lactan form of these dyes (activated by interaction with imides) with secondary amines at 23°-60° in anototic solvents. Thus, mixing 1 g of Knodamine B chloride, 0.7 mg of O-(N-succinimidy))-N, N, N, N-tetramethyluronium tetrafluoroborate (III) and 0.7 mL N-ethyl-disopropylamine (IV) in action title 2 h at room temperature gives after appropriate treatment and drying 0.8 g of rhodamine B NKS-ester (V). Heating 0.5 g of V, 0.25 g of butanoic acid 4-intentylamino)-hydrochiloride and 0.27 mL of IV in 40 mL of acetonitrile gives 0.3 g of I. The conjugate of I with cysteine is prepared by treatment of aminocthyl maleimide of I (prepared from V by mixing 5 h at room temperature with IV and aminocthyl maleic acid imide) solution in Etti with cysteine for 2 h at room temperature and adding 50 mL of Nacl04 solution TRACT (Reactant): PREP (Preparation): RACT (Reactant): PREP (Preparation): RACT (Reactant): Q-80 considered the summardature): (Calboxanide-substituted fluorescent dye manufacture for anal. applications) 715519-85-8 CAPLIS

Xanthylium, 3,6-bis (diethylamino)-9-[2-[[[4-[2,5-dioxo-1-pyrrolidinyl) oxyl-4-oxobutyl]methylamino]carbonyl]phenyl]- (CA INDEX NAME)

713519-61-0P RL: NMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

USES (Uses)
(carboxamide-substituted fluorescent dye manufacture for anal. applications)
713519-61-0 CAPLUS
Xanthylum, 9-[2-[(3-carboxyprosyl)methylamino]carbonyl]phenyl]-3,6bis(diethylamino)-, inner salt (CA INDEX NAME)

$$-\sigma_2 c - (c_{H2}) \frac{1}{3} - N - c - c_{H2} \frac{1}{3} - N - c_{H2}$$

11/10/2008

L7 AN DN TI IN

ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN 2004:554267 CAPLUS 141:90502 Carboxanide-substituted dyes for analytical applications Arden-Jacob, Jutta: Drexhage, Karl-Heinz; Hamers-Schneider, Monika; Kemnitzer, Norbert: Zilles, Alexander Atto-Tec GmbH, Germany PCT Int. Appl., 62 pp. CODEN: PTXXXD2 Patent

PA SO

FAN. CNT 1																			
	PATENT NO.				KIND DATE				APPLICATION NO.					DATE					
ΡI		W0 2004055117 W0 2004055117			A2 20040701 A3 20040819				WO 2003-EP14534					20031218					
	***	W:	AE, CN, GE, LK, NZ, TM, BW, BY, ES,	AG, CO, GH, LR, OM, TN, GH, KG, FI,	AL, CR, GM, LS, PG, TR, GM, KZ, FR,	AM, CU, HR, LT, PH, TT, KE, MD, GB,	AT, CZ, HU, LU, PL, TZ, RU, GR,	AU, DE, ID, LV, PT, UA, MW, TJ, HU,	AZ, DK, IL, MA, RO, UG, MZ, TM, IE,	DM, IN, MD, RU, US, SD, AT, IT,	BB, DZ, IS, MG, SC, VZ, SL, BE, LU,	BC, JP, MK, SD, VC, SZ, BG, MC,	EE, KE, MN, SE, VN, TZ, CH, NL,	EG, KG, MW, SG, YU, UG, CY, PT,	ES, KP, MX, SK, ZA, ZM, CZ, RO,	FI, KR, MZ, SL, ZM, ZW, DE, SE,	CA, GB, KZ, NI, SY, ZW AM, DK, SI,	CH, GD, LC, NO, TJ, AZ, EE, SK,	
	DE	1025		BF,	BJ,	CF, A1		CI, 2004			GN, DE 2			ML, 9374			SN, 0021:	TD, 218	TG
		2003		16		A1 20040709					AU 2003-300216					20031218			
				A2 200509 DE, DK, ES, H															
		R:		BE, SI,	CH, LT,	DE, LV,			MK,		AL,							ы,	
		2006						2006			US 2	005-	5397	90		2	0050	617	
PRAI	AI DE 2002-10259374					2002													
							2003												
OS GT	CAS	SREAC	T 14	1:90	502;	MARI	PAT	141:	9050:	2									

$$\begin{array}{c} \text{CH}_3\\ \text{CO-N+CH}_2^1\text{CO}_2\text{H} \\ \text{Et} \\ \text{Et} \\ \text{I} \\ \text{Et} \\ \text{Et} \\ \text{II} \\ \text{Et} \\ \text{II} \\ \text{I$$

ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
713519-70-1P 713519-74-5P 713520-00-4P
713520-12-8P 713520-24-2P
713520-12-8P 713520-24-2P
713520-12-8P 713520-24-2P
(Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(carboxanide-substituted fluorescent dye manufacture for anal. applications)
713519-70-1 CAPLUS
Butancia caid, 4-[[2-[10-(diethylamino)-3-oxo-3H-benzo[c]xanthen-7-yl]benzoyl]methylamino]- (CA INDEX NAME)

713519-74-5 CAPLUS D-Glucitol, 1-[[2-[3,6-bis(diethylamino)xanthylium-9-yl]benzoyl]methylamino]-1-deoxy- (CA INDEX NAME)

Absolute stereochemistry.

713520-00-4 CAPLUS Xanthylium, 9-[2-[[[4-[2-[3-[[(2S)-2-amino-2-carboxyethyl]thio]-2,5-dioxo-1-pyrrolidinyl]ethylamino]-4-oxobutyl]methylamino]carbonyl]phenyl]-3,6-bis(diethylamino)-, inner salt (CA INDEX NAME)

Absolute stereochemistry.

L7 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

713520-12-8 CAPLUS
Xanthylium, 9-[2-[[[4-[[3-[1-[2-deoxy-5-0[Indroxy[[Midroxy[[bnosphonooxy]]hosphinyl]]-p-D-erythropentofuranosyl]-1,2,3,4-tetrahydro-2,4-dioxo-5-pyrimidinyl]-2-propen-1yl]amino]-4-roxobutyl]pethylamino]carbonyl]phenyl]-3,6-bis(diethylamino)-,
inner salt (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

Et2N

PAGE 1-B

L7 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

713519-96-0P
RL: DMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(Reactant)

L7 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2008 ACS on STN

PAGE 1-B

713520-24-2 CAPLUS Xanthylium, 9-[2-[18-[[(3B,5B,12B,14B)-21,23-epoxy-12,14-dihyloxy-23-oxo-24-norchol-20(32)-en-3-yl]oxy]-2-methyl-1,6,17-trioxo-10,13-dioxa-2,7,16-triazaoctadec-1-yl]phenyl]-3,6-bis(diethylamino)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

10/539,790 11/10/2008 Page 123

=> => (d que 114	stat
L8		SEA FILE=CAPLUS ABB=ON PLU=ON ("ARDEN JACOB J"/AU OR "ARDEN
		JACOB JUTTA"/AU)
L9	70	SEA FILE=CAPLUS ABB=ON PLU=ON ("DREXHAGE KARL H"/AU OR
		"DREXHAGE KARL HEINZ"/AU OR "DREXHAGE KARLHEINZ"/AU)
L10	1	SEA FILE=CAPLUS ABB=ON PLU=ON "HAMERS SCHNEIDER MONIKA"/AU
L11	4	SEA FILE=CAPLUS ABB=ON PLU=ON ("KEMNITZER N U"/AU OR
		"KEMNITZER NORBERT"/AU OR "KEMNITZER NORBERT UWE"/AU)
L12	4	SEA FILE=CAPLUS ABB=ON PLU=ON "ZILLES ALEXANDER"/AU
L13	83	SEA FILE=CAPLUS ABB=ON PLU=ON L8 OR L9 OR L10 OR L11 OR L12
L14	1	SEA FILE=CAPLUS ABB=ON PLU=ON L13 AND ?CARBOXAMID?

^{=&}gt; d bib abs

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L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:534267 CAPLUS
DN 141:90502
L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2004:534267 CAPLUS
L16 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 141:90502
L17 Carboanide-substituted dyes for analytical applications
L18 Arden-Jacob, Jutta; Drewhange, Karl-Heinz;
Hamer-Schmeider, Monika; Remnitzer, Norbert;
L211es, Alexander
ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008
ATTENDED AND ANSWER 1 OF ANSWER 2008
ATTENDED AN
```

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

$$\begin{array}{c} \text{CH3} \\ \text{CO-N+CH2} \\ \text{CO-N+CH2} \\ \text{CO} \\ \text{Dt} \end{array}$$

AB Fluorescent dwes (mostly rhodamine, thiorhodamine, selenorhodamine, rhodol, carbopyronine, triphenylmethane and amidopyrilium derivs.) with improved water solubility, in which lactone or lactam group group is modified with carboxamide-group, such as I (including multichromophore-containing mols., such as bichromophoric II) are useful for anal. application in vivo and in vitro, in labeling and diagnostic systems, in immunol. and nucleic acid hybridization method, and in pertide, polypertide, nucleic acid and its analog, nucleoside, nucleotide and hapten conjugates. These dwes are prepared by reacting lactone or lactam form of these dyes (activated by interaction with imides) with secondary amines at 25°-60° in aprotic solvents. Thus, mixing 1g of Rhodamine B chloride, 0.7 mg of 0-N-succinimidyl)-N,N,N,N-tetramethyluronium tetrafluoroborate (III) and 0.7 ml.N-ethyl-disopropylamine (IIV) in actonitrile 2 h at room temperature gives after appropriate treatment and drying 0.8 g of rhodamine B NS-ester (V). Healing 0.5 g of V 0.25 g or butanco acid factonitrile gives 0.3 g of I. The conjugate of I with cysteine is prepared by treatment of aminorthyl maleimide of I (prepared from V by mixing 5 h at room temperature with IV and aminoethyl maleic acid imide) solution in BtOH with cysteine for 2 h at room temperature and adding 50 mL of NaClO4 solution

=> d his full

L1

(FILE 'HOME' ENTERED AT 09:52:30 ON 06 NOV 2008)

FILE 'REGISTRY' ENTERED AT 09:52:47 ON 06 NOV 2008 STRUCTURE UPLOADED

L2 26 SEA SSS SAM L1

L3 475 SEA SSS FUL L1 D QUE L3 STAT

L4 132 SEA ABB=ON PLU=ON L3 AND ED<12/18/2003

FILE 'CAPLUS' ENTERED AT 09:56:32 ON 06 NOV 2008

L5 43 SEA ABB=ON PLU=ON L4 D 1-43 BIB ABS HITSTR

> FILE 'REGISTRY' ENTERED AT 09:57:48 ON 06 NOV 2008 D L4 1-132 IDE CAN

FILE 'CAPLUS' ENTERED AT 10:00:15 ON 06 NOV 2008

L6 71 SEA ABB=ON PLU=ON L3

L7 28 SEA ABB=ON PLU=ON L6 NOT L5

D 1-28 BIB ABS HITSTR E ARDEN JACOB JUTTA/AU

L8 23 SEA ABB=ON PLU=ON ("ARDEN JACOB J"/AU OR "ARDEN JACOB JUTTA"/AU)

E DREXHAGE KARL/AU

L9 70 SEA ABB=ON PLU=ON ("DREXHAGE KARL H"/AU OR "DREXHAGE KARL HEINZ"/AU OR "DREXHAGE KARLHEINZ"/AU)

E HAMERS SCHNEIDER MONIKA/AU

L10 1 SEA ABB=ON PLU=ON "HAMERS SCHNEIDER MONIKA"/AU

E KEMNITZER NORBERT/AU

L11 4 SEA ABB=ON PLU=ON ("KEMNITZER N U"/AU OR "KEMNITZER NORBERT"/
AU OR "KEMNITZER NORBERT UWE"/AU)
E ZILLES ALEXANDER/AU

4 SEA ABB=ON PLU=ON "ZILLES ALEXANDER"/AU

83 SEA ABB=ON PLU=ON L8 OR L9 OR L10 OR L11 OR L12

1 SEA ABB=ON PLU=ON L13 AND ?CARBOXAMID?

D QUE L14 STAT

D BIB ABS

FILE HOME

L12

L13

L14

FILE REGISTRY

Property values tagged with IC are from the ${\it ZIC/VINITI}$ data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 NOV 2008 HIGHEST RN 1070859-34-5 DICTIONARY FILE UPDATES: 4 NOV 2008 HIGHEST RN 1070859-34-5

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experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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FILE CAPLUS

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FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19 FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

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